This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

+ *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.

+ *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.

+ *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.

+ *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at http://books.google.com/

Modern tactics

Herbert Reay Gall

Digitized by Google

War Department Library.
U165.G16
SECTION. SHELF.
H * 22 * 2
3—384

Digitized by Google

12867

U
165
.G16
v.2

INSTRUCTIONS

Regarding books, belonging to the Library of the War Department, loaned under provisions of General Orders, No. 21, 1894, viz:

"Officers receiving books are expected to fully comply with instructions as to time and manner of returning, or forwarding, such publications as they draw from the Library. Officers will be held responsible for the value in money of books that are lost or injured through their neglect. The Chief Signal Officer of the Army is charged with the details necessary to carry this plan into effect."

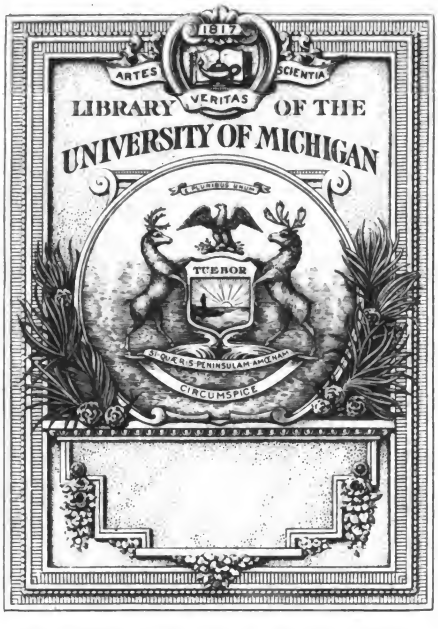
Volumes must be returned direct to the Library of the War Department, unless special instructions are given for their transmission to another officer. In determining the time limit, the date of forwarding the books and not that of the receipt will be counted. Appropriate data will be entered by borrowers in the columns below. All books must be forwarded by registered mail, and the registry receipt held for the protection of the officer. The registry fee, if any, will be paid by the officer forwarding the volume. All books must be carefully wrapped so as to prevent injury, the corners being especially protected.

A. W. GREELY,
Brigadier General and Chief Signal Officer, U. S. A.,
In Charge.

JULY 2, 1894.

Signature and station of officer.	Date of receipt.	To whom forwarded.	Date of forwarding.
1. Geo. Bell. Jr. 1st Lt. 3d Cav. Ft. Snelling, Minn.	Feb 1st	War Dept. Library	Feb 27/97
2.			
3.			
4.			
5.			
6.			
7.			

Digitized by Google



RECEIVED IN EXCHANGE
FROM
American
Military Institute

Digitized by Google

MODERN TACTICS

(PLATES)

War Department.
[redacted]
22/88
LIBRARY.

BY

CAPTAIN H. R. GALL,

LATE 5TH FUSILIERS,

Instructor of Tactics at Messrs. James & Lynch's Military Establishment, Lexham Gardens.

"Battle is the final aim of all combinations of war. The first object ought to be to secure a victory; the second, to render it as complete as possible; the third, to prevent a defeat from becoming disastrous. The thoroughness of a victory or the mitigation of the evil consequences of a defeat depend upon knowing how to utilize time and place."—RÜSTOW.

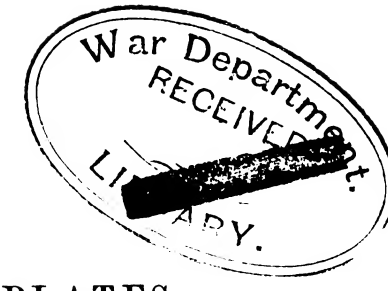
LONDON:
W. H. ALLEN & Co., 13, WATERLOO PLACE, S.W.

1889.

Digitized by Google

Digitized by Google

Epw.
American Military Institute
2-14-45



LIST OF PLATES.

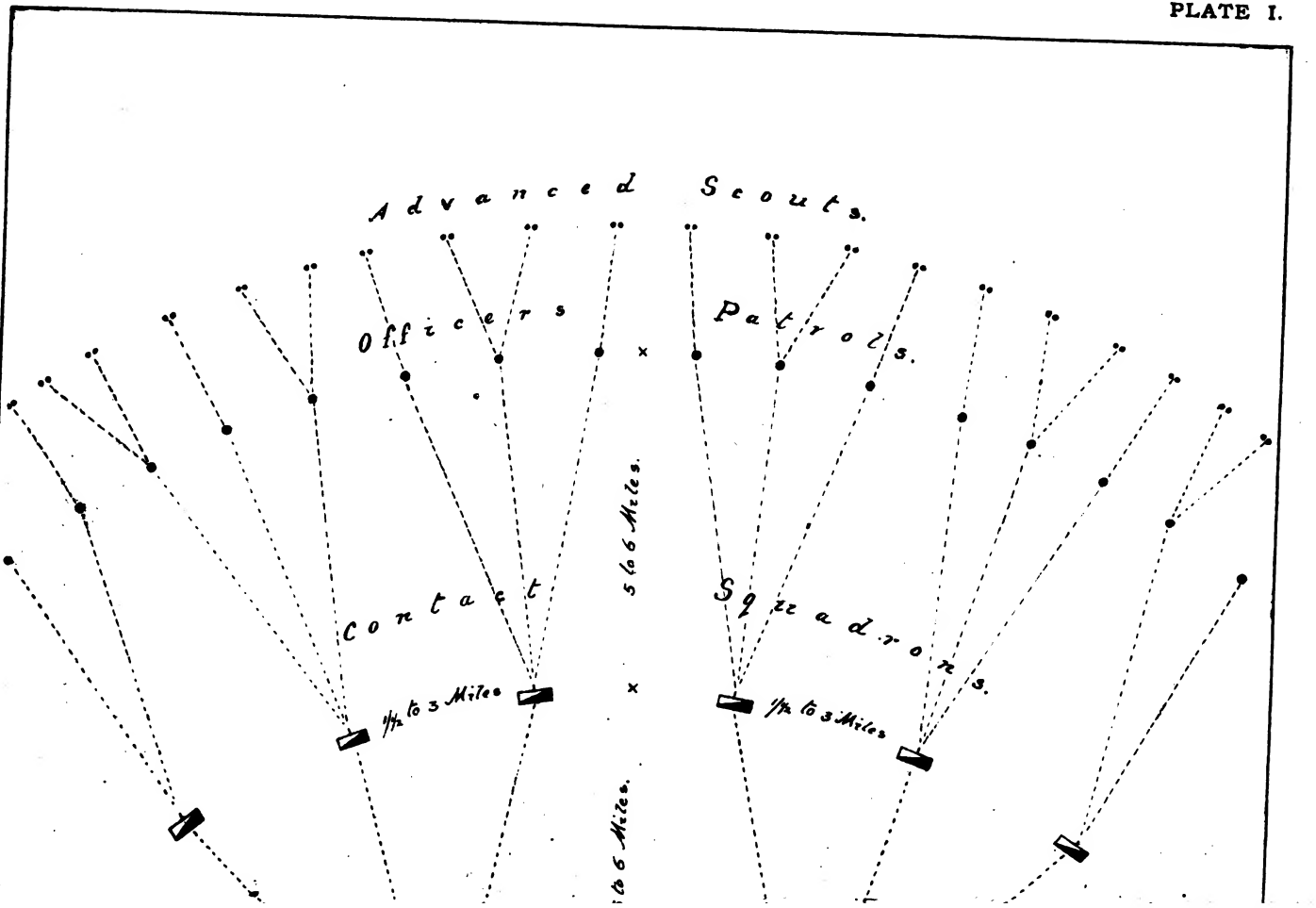
I. Cavalry Brigade Covering an Army Corps.
II. A Squadron Working in a Close Country.
III. Reconnoitring Patrol Formations.
IV. Spaces.
V. Illustration of a Time Question.
Va. Advanced-Guard of a Division.
VI. Advanced-Guard—Enemy Near.
VII. Three Woods that come into Outposts.
VIII. Outposts of a Battalion.
IX. Occupation of a Position.
X. Attack on a Position.
XI. Infantry Formations—Attack.
XII. Cavalry Drill Book Formations.
XIII. Cavalry Drill Book Formations.
XIV. Cavalry Drill Book Formations.
XV. A Rear-Guard Action.
XVI. Formation of Troops on the Line of March.
XVII. A Flank March.
XVIII. Map of the River Danube.
XIX. Passage of the Danube by the Russians, 1877.
XX. Defiles.
XXI. Defiles.
XXII. Defence of a Wood.
XXIII. Five Classes of Villages held in Connection with a Position.
XXIV. Defence of a Village.
XXV. Different Methods of Parking Convoys.
XXVI. Answer to Question, Staff College Entrance, Examination, June, 1887.
XXVII. Defence of Frimley Village.

c 3-15-45 ADE

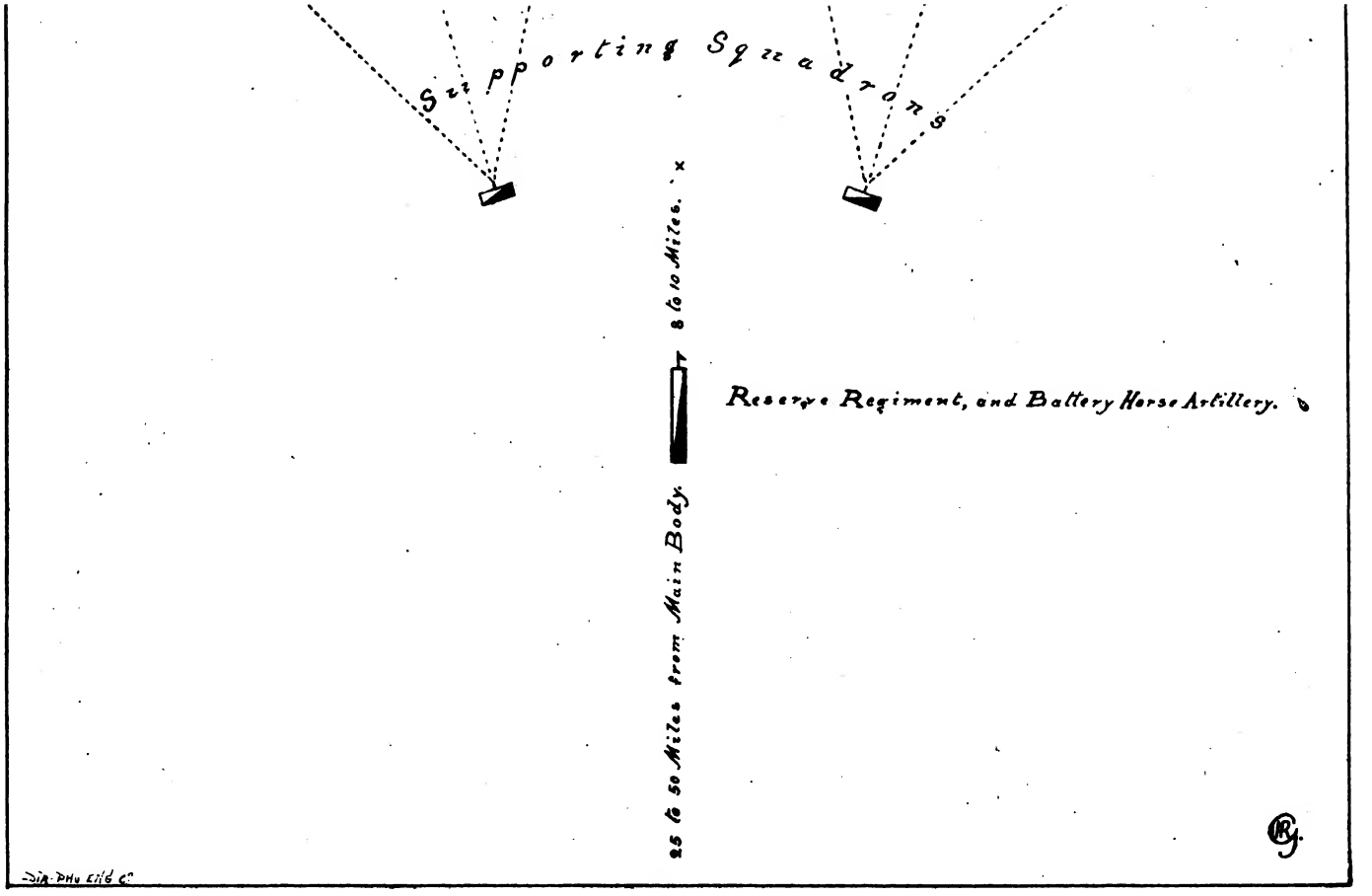
Digitized by Google

Digitized by Google

Digitized by Google



Digitized by Google

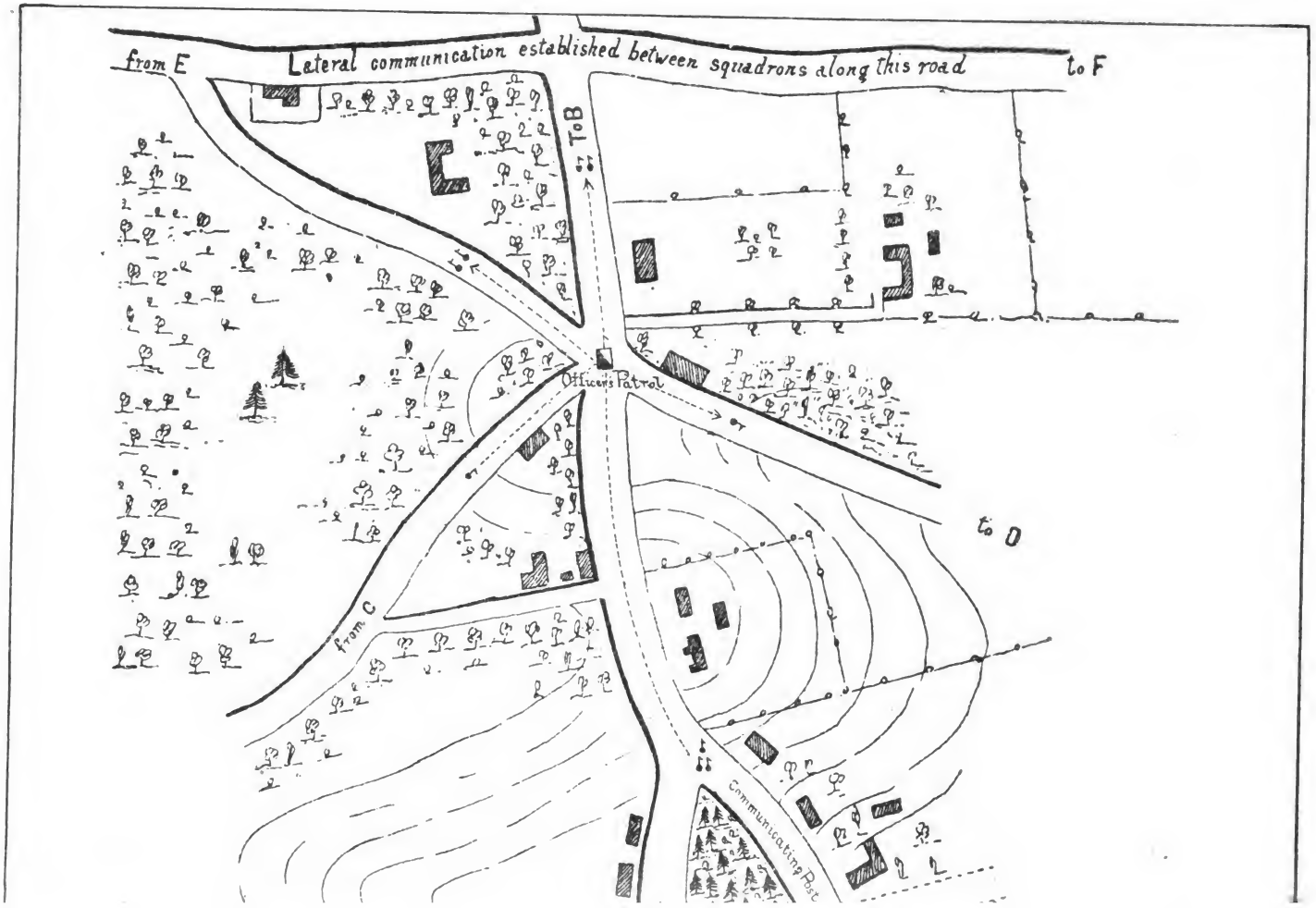


CAVALRY BRIGADE COVERING AN ARMY CORPS.

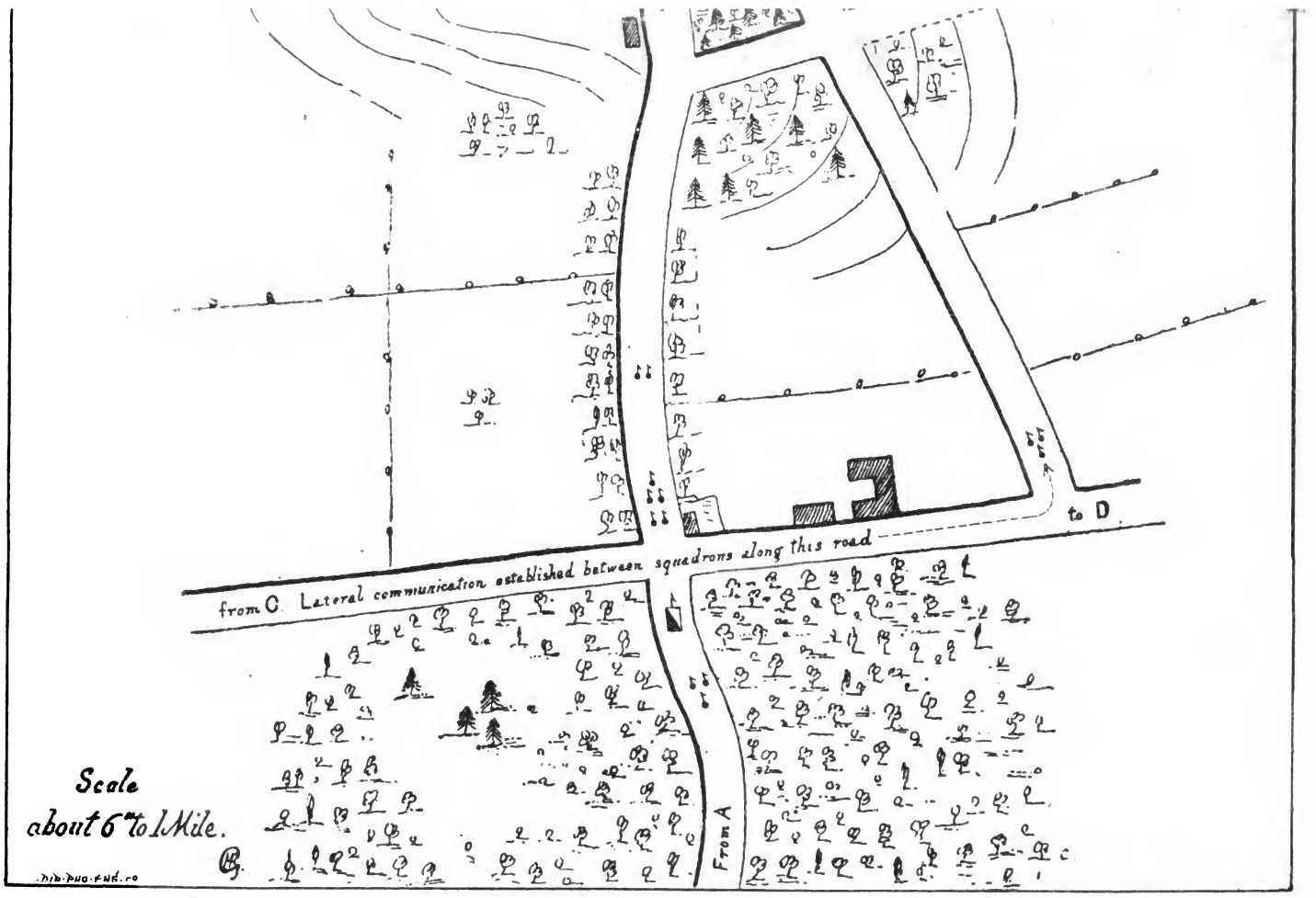
Digitized by Google
UNIV. OF MICH.

Digitized by Google

Digitized by Google



Digitized by Google



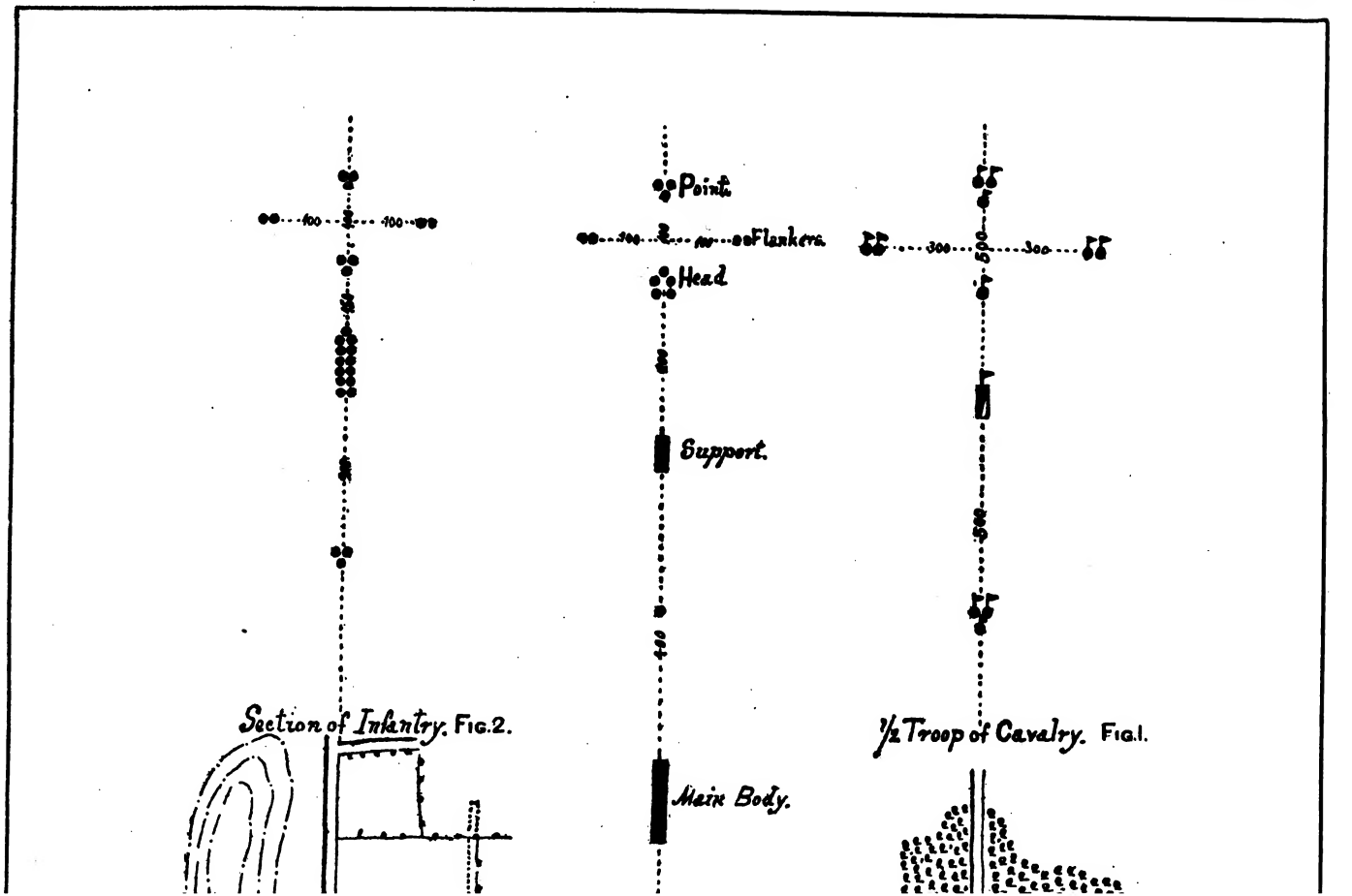
1 mile to 6".

A SQUADRON FORMING PART OF A CAVALRY SCREEN WORKING IN A CLOSE COUNTRY.

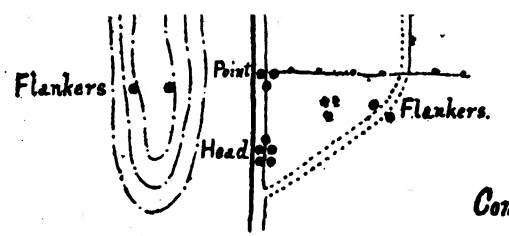
Digitized by Google
UNIV. OF MICH.

Digitized by Google

Digitized by Google

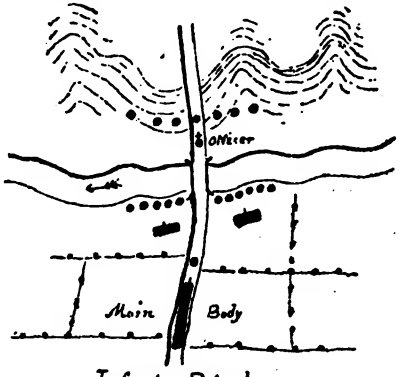


Digitized by Google



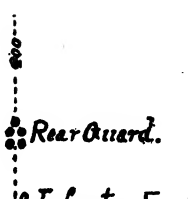
Infantry Patrol.

Heights near road crowned by Left Flankers. Fig. 4.

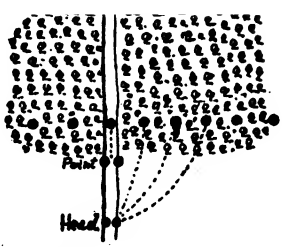


Infantry Patrol.

Head, reinforced by Support, holding near side of a bridge while Point and Flankers are reconnoitring over the river. Fig. 6.



Company of Infantry. Fig. 3.



Infantry Patrol.

Right Flankers reinforced from Head, and Support if necessary, go through the wood keeping within calling distance of each other. Fig. 5.

Notes.

All commanding heights and ridges must be crowned, and villages, farms, houses, woods, &c, within reach of the road capable of holding and concealing an enemy must be searched.

Villages should be reconnoitred, if possible from high ground in vicinity, and outflanked on both sides before Point of Patrol enters.

Before entering a defile, if accessible the heights should be crowned and cross roads reconnoitred.

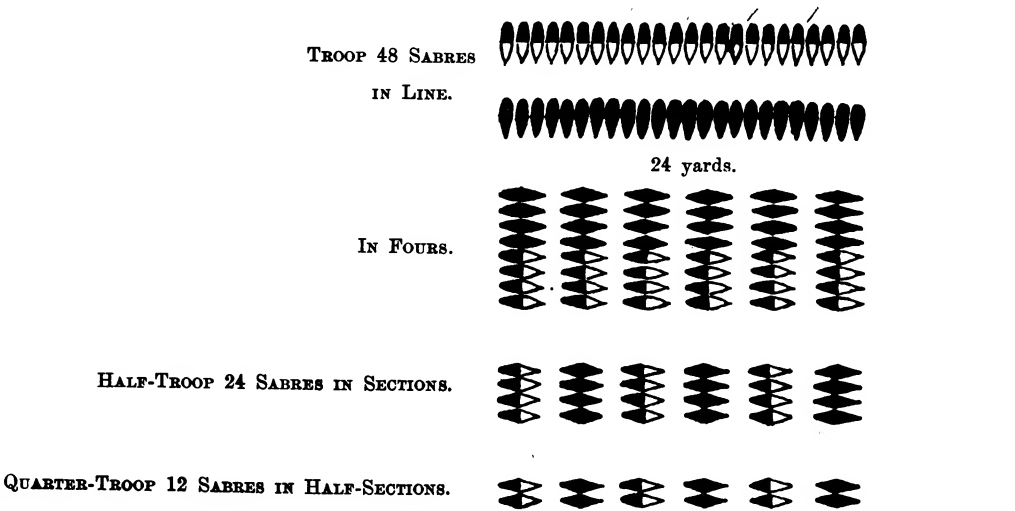
DIR. PHO. ENG. Co

Digitized by Google
UNIV. OF MICH.

Digitized by Google

Digitized by Google

CAVALRY.



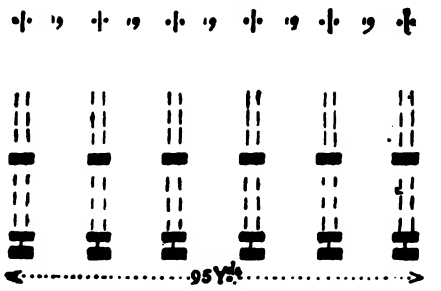
Digitized by Google

INFANTRY.

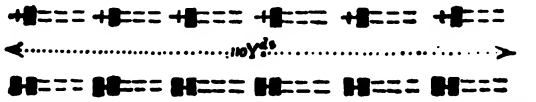
BATTALION 6 COMPANIES IN LINE.

ARTILLERY.

224 YARDS.



BATTERY IN LINE FOR ACTION.



COLUMN OF SUB-DIVISIONS.

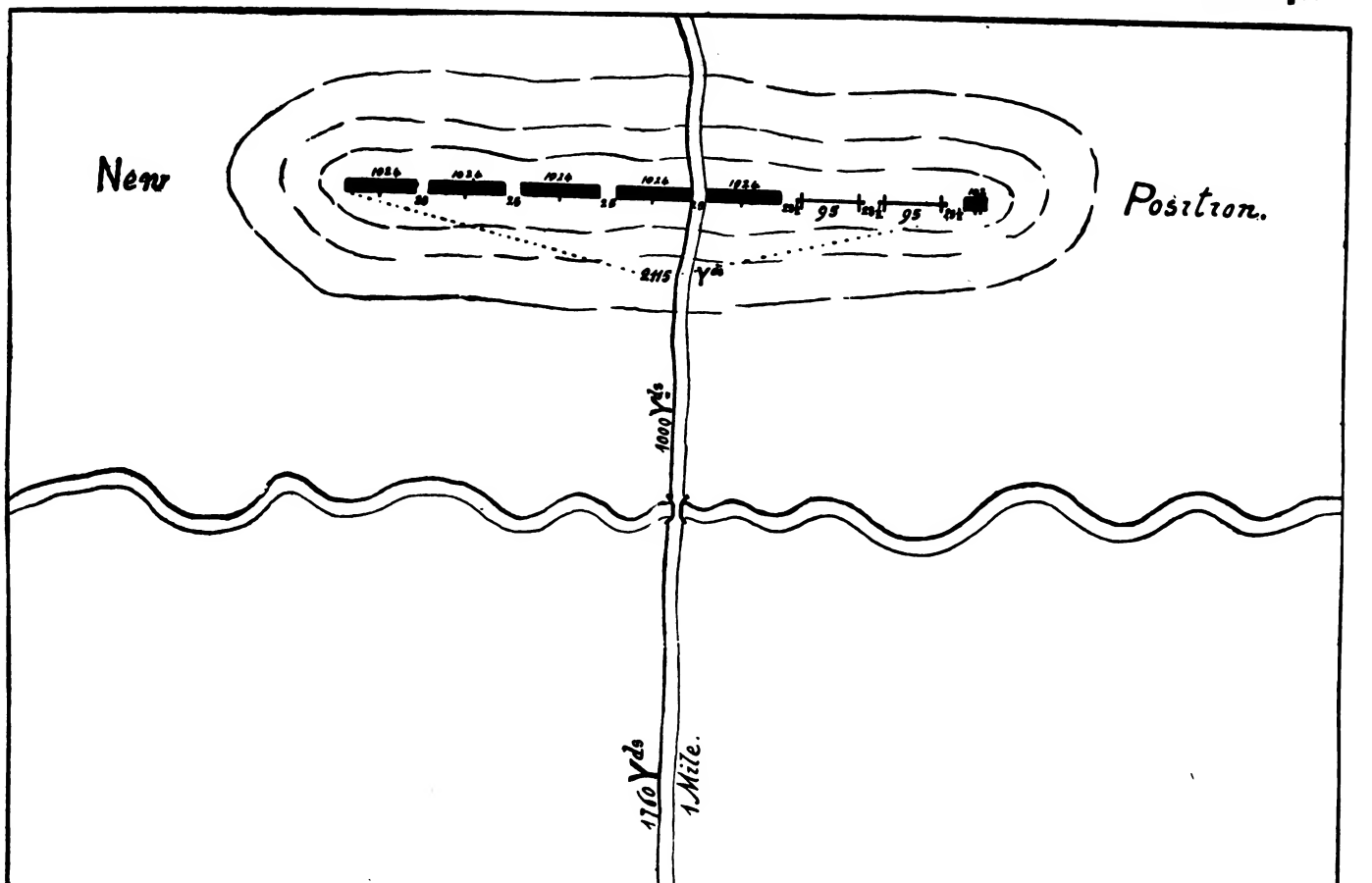
SPACES.

Digitized by Google
UNIV. OF WICH.

Digitized by Google

Digitized by Google

PLATE V.



Digitized by Google

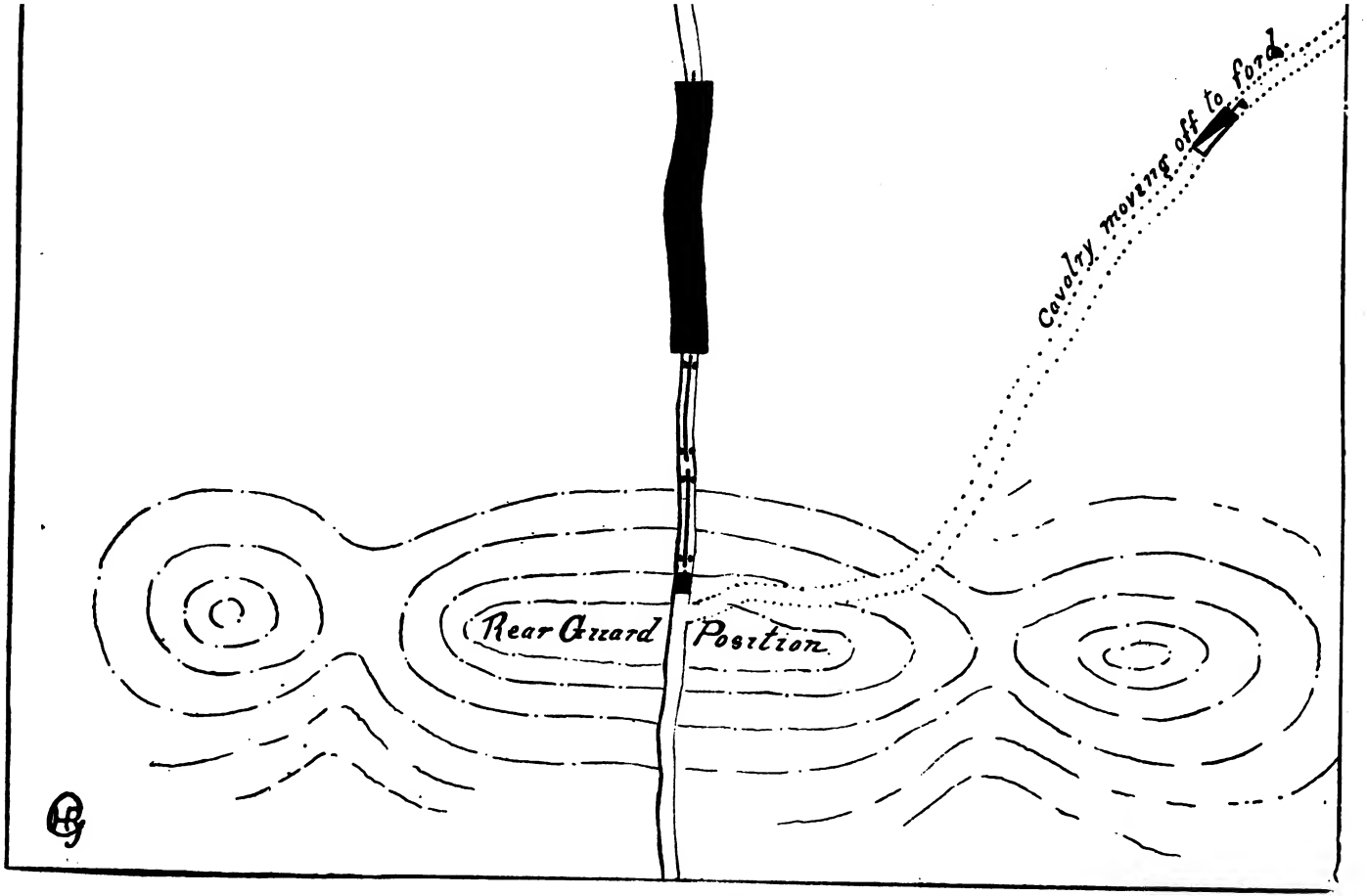


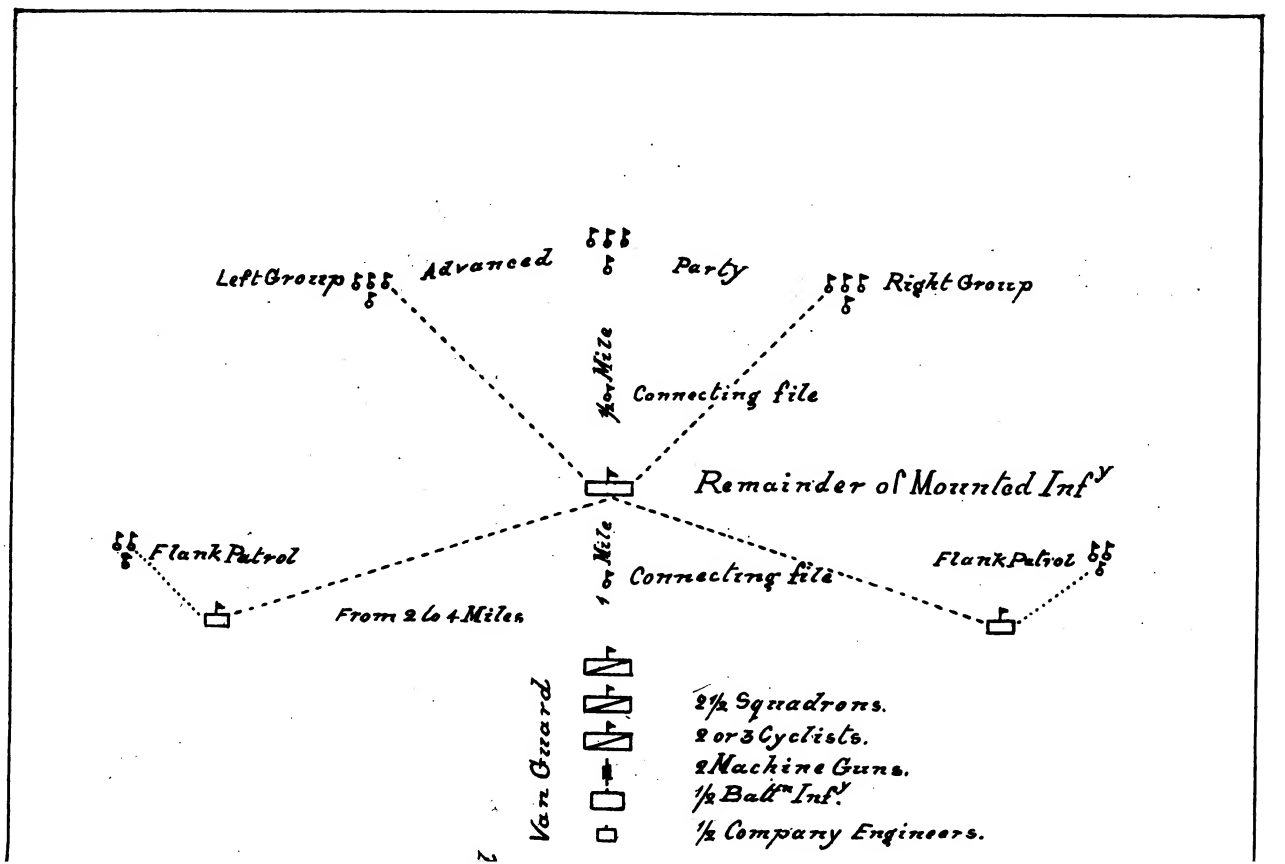
ILLUSTRATION OF A TIME QUESTION.

Digitized by Google
UNIV. OF MICH.

Digitized by Google

Digitized by Google

PLATE Va.



Digitized by Google

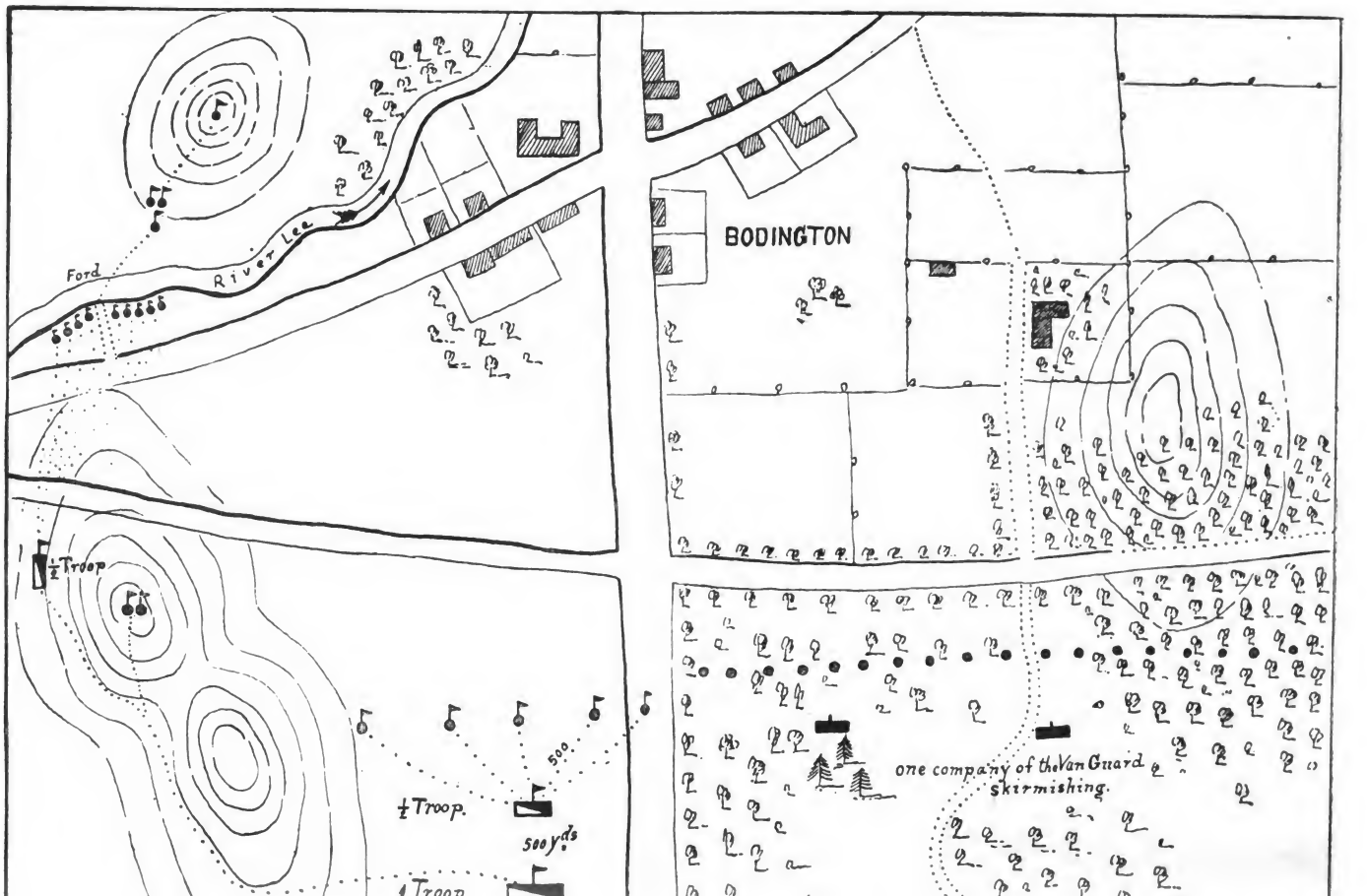
ADVANCED GUARD OF A DIVISION.

Digitized by Google
UNIV. OF MICH.

Digitized by Google

Digitized by Google

PLATE VI.



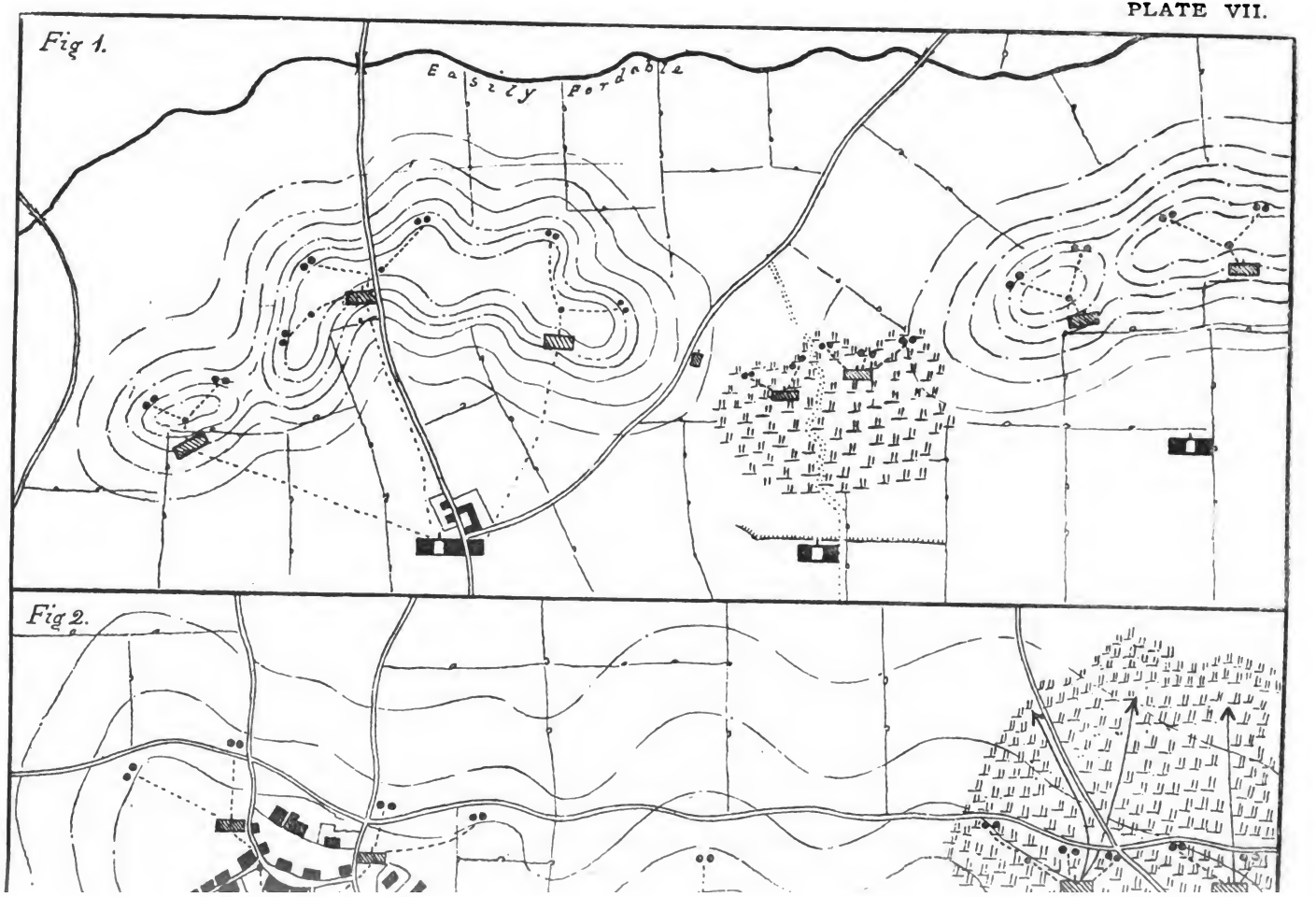
Digitized by Google

Digitized by Google

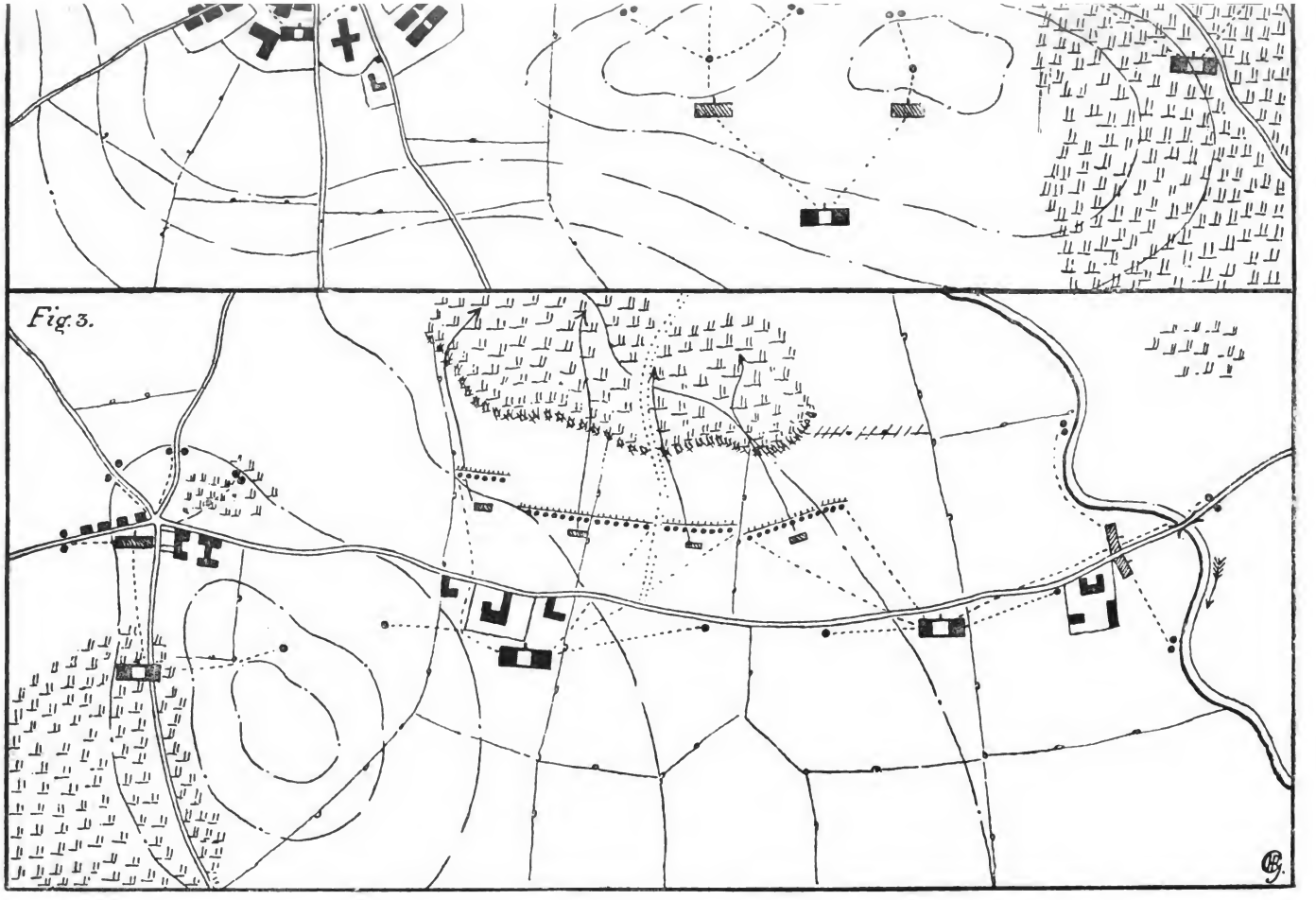
ADVANCED GUARD.—ENEMY NEAR.

Digitized by Google

Digitized by Google



Digitized by Google

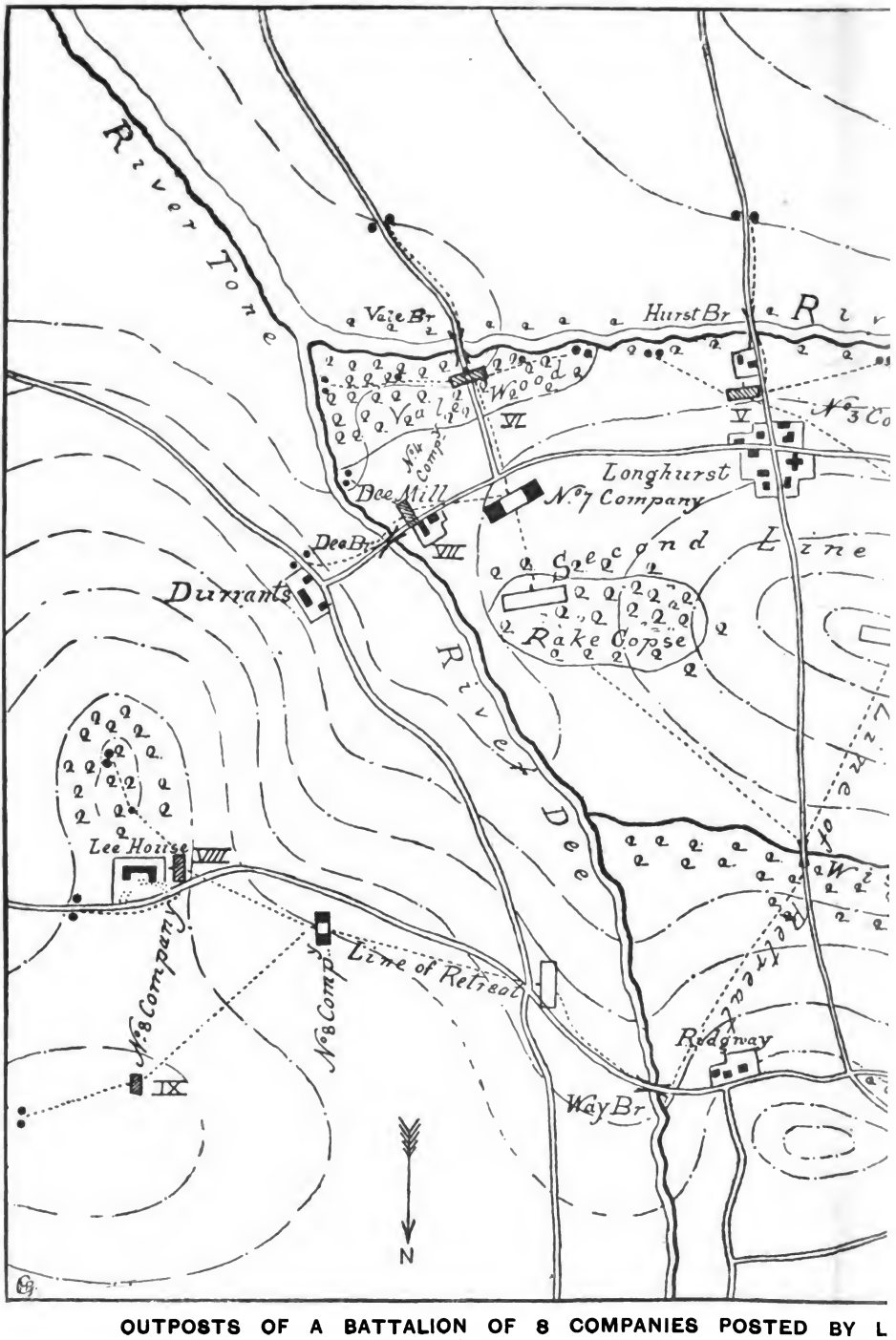


THREE ILLUSTRATIONS OF WOODS THAT MAY COME INTO THE SENTRY LINE.

Digitized by Google
UNIV. OF MICH.

Digitized by Google

Digitized by Google

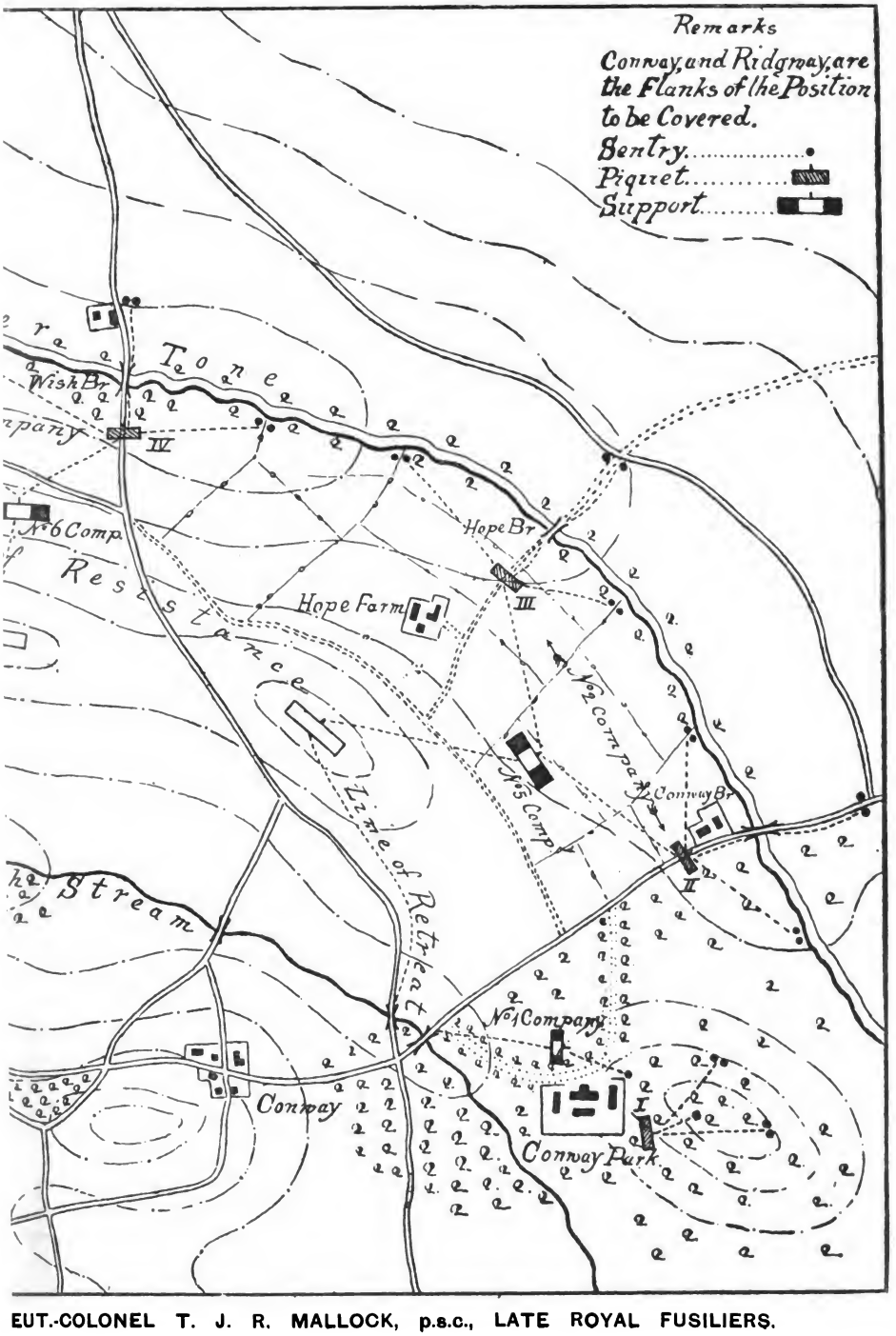


OUTPOSTS OF A BATTALION OF 8 COMPANIES POSTED BY L

Scale, 3 inc

Digitized by Google

PLATE VIII.



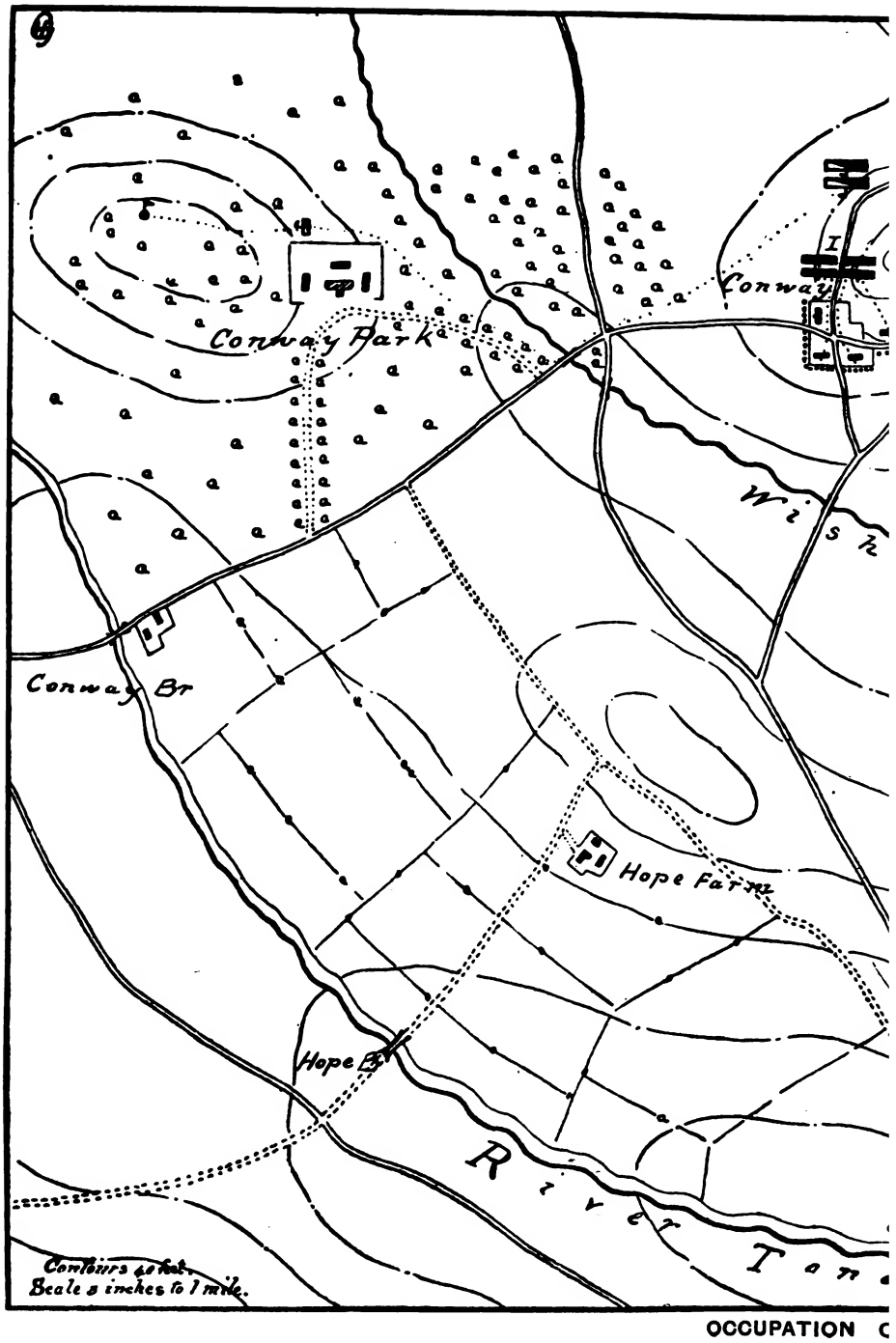
LIEUT.-COLONEL T. J. R. MALLOCK, p.s.c., LATE ROYAL FUSILIERS.

3 to the mile.

Digitized by Google

Digitized by Google

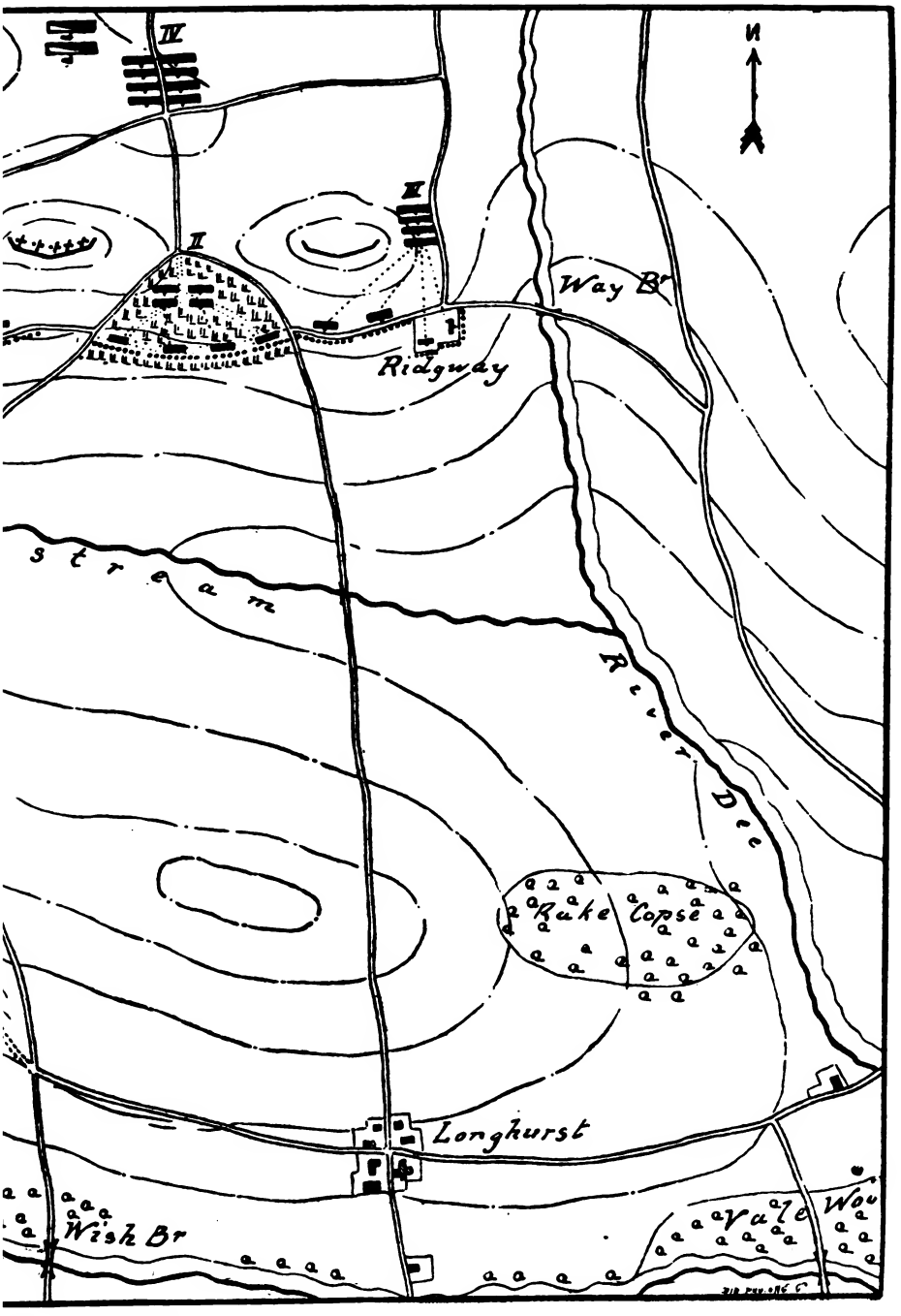
Digitized by Google



OCCUPATION C

Digitized by Google

PLATE IX.

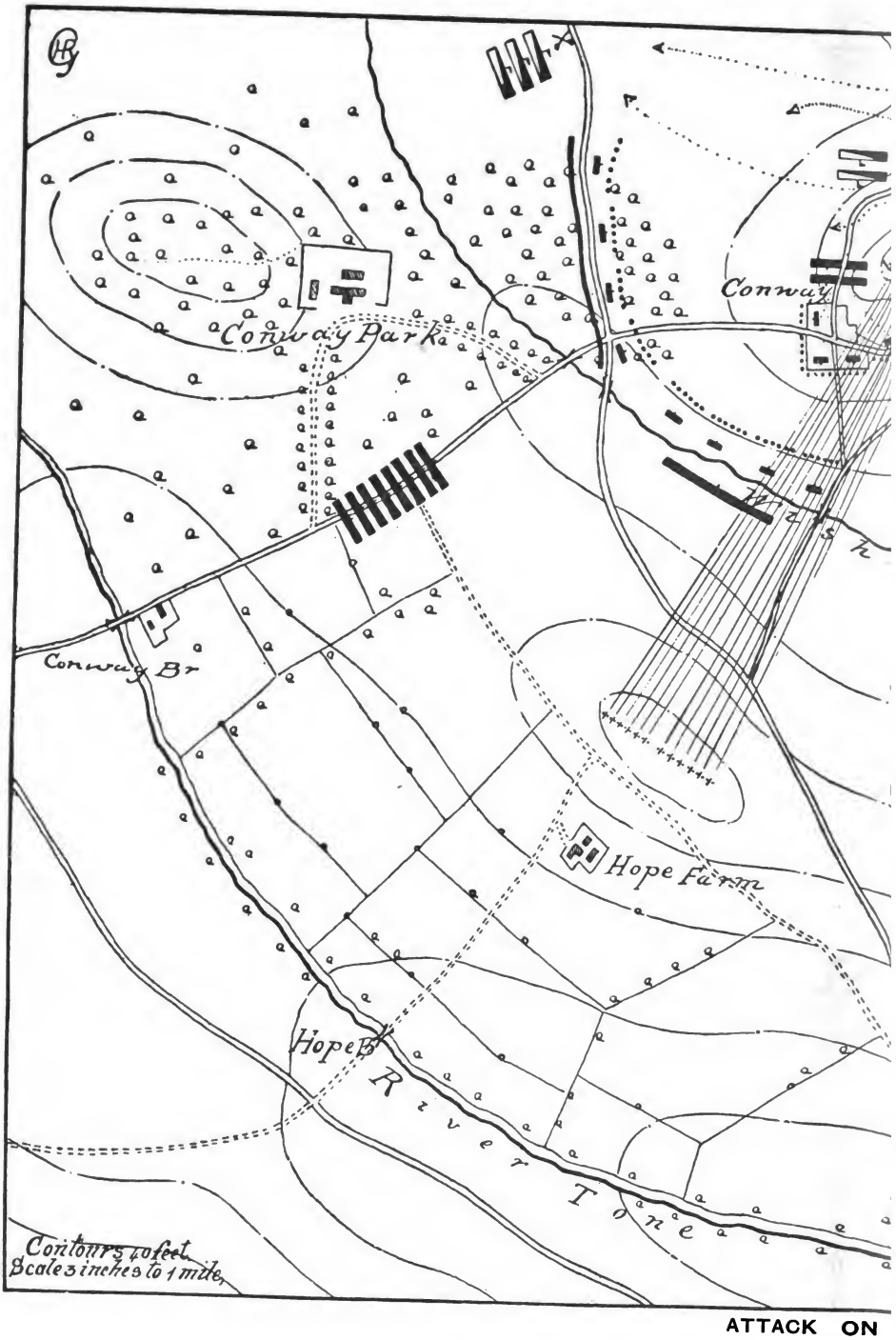


F A POSITION.

Digitized by Google
UNIV. OF MICH.

Digitized by Google

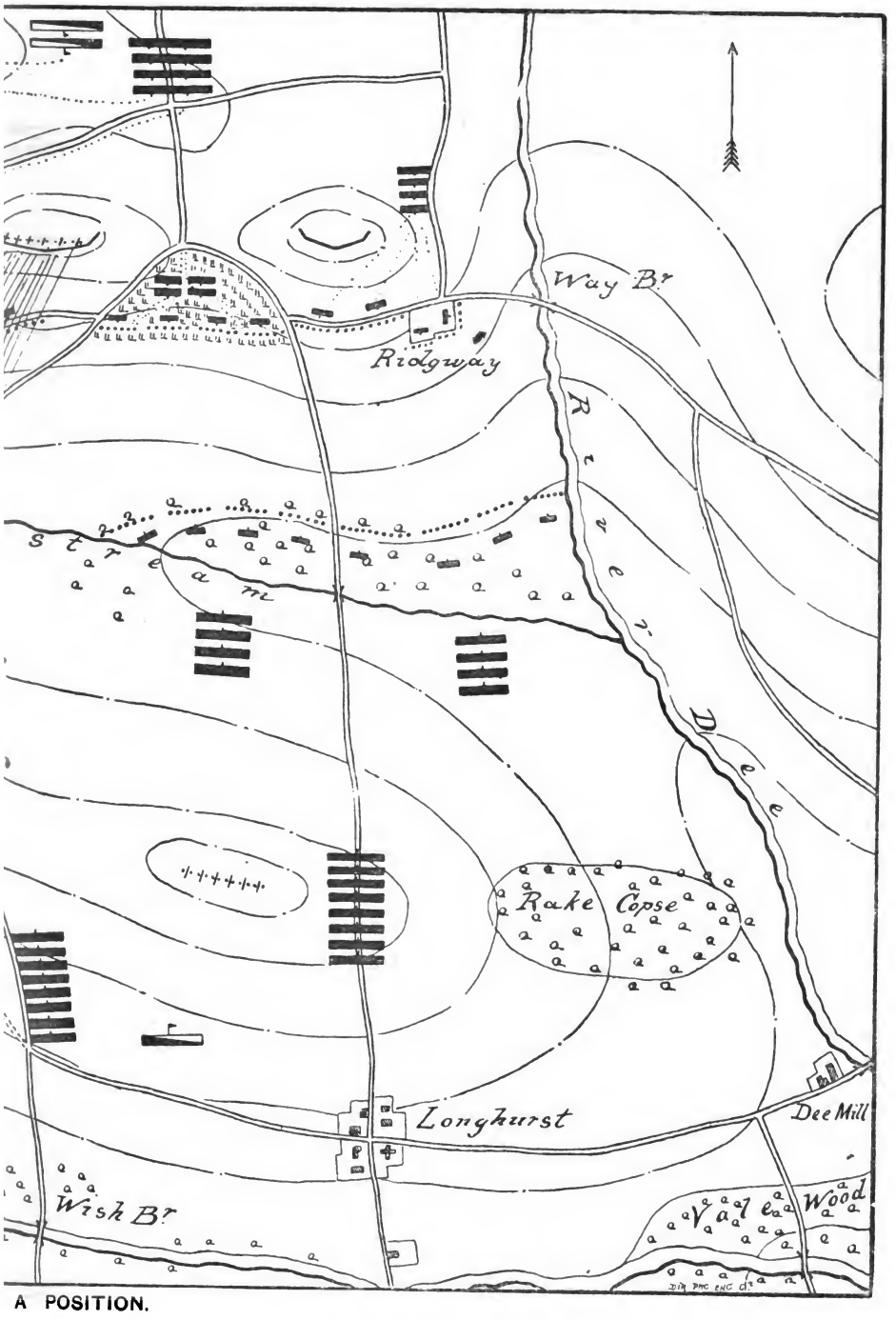
Digitized by Google



ATTACK ON

Digitized by Google

PLATE X.



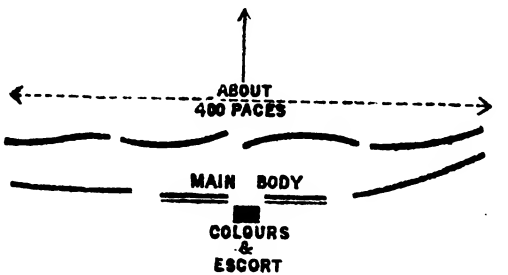
A POSITION.

Digitized by Google
UNIV. OF MICH.

Digitized by Google

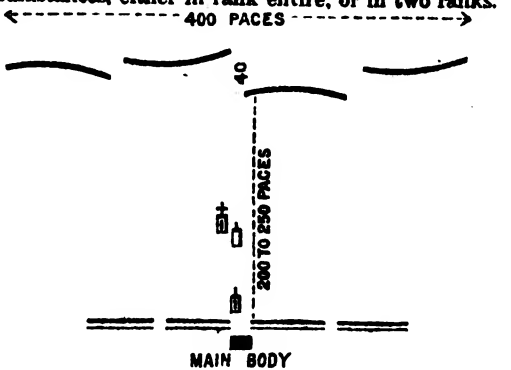
Digitized by Google

(About 150 paces from enemy's position.)



4th Stage.

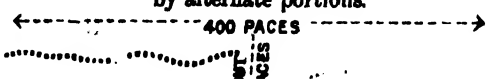
Fighting line checked. Main body reinforcing according to circumstances, either in rank entire, or in two ranks.



3rd Stage.

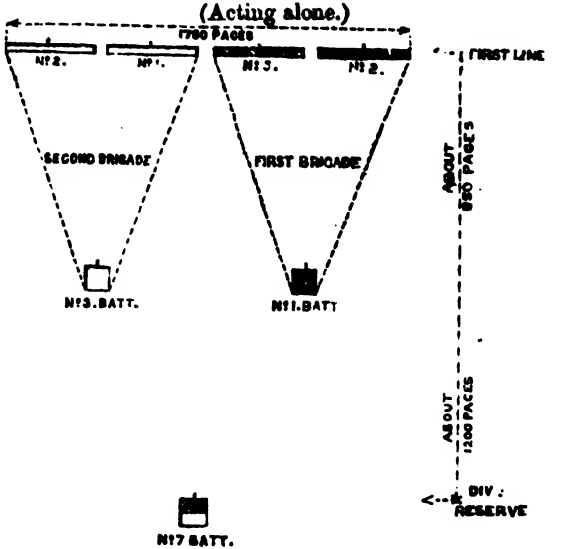
(From 300 to 400 paces from enemy's position.)

Fighting line, reinforced by supports, firing and advancing by alternate portions.

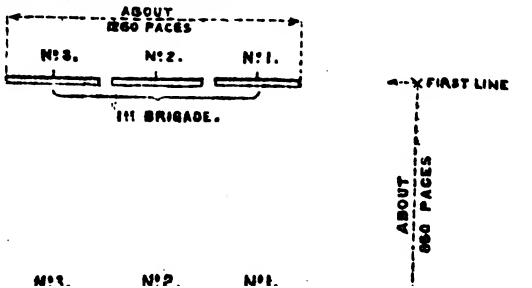


A DIVISION.

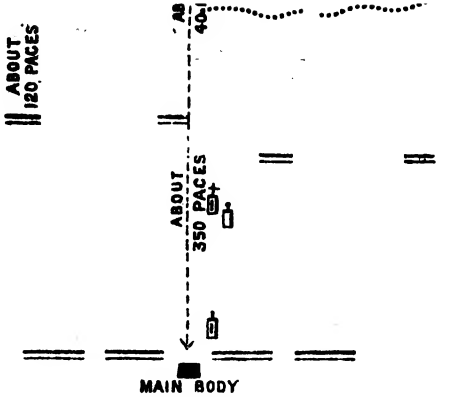
(Acting alone.)



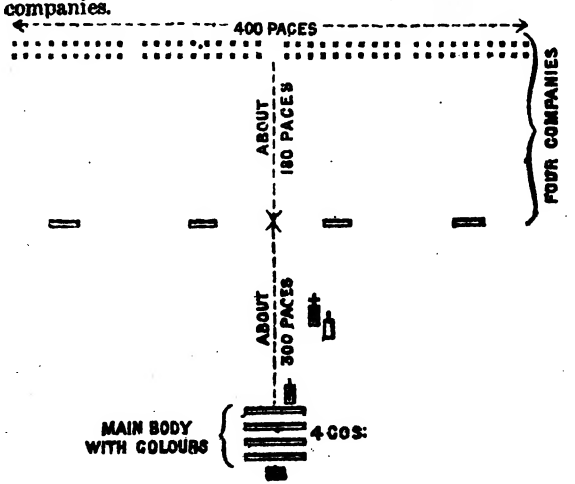
Each Infantry Brigade formed with Two Battalions in the 1st line, and a third in the 2nd line, the 7th Battalion as Divisional Reserve



Digitized by Google



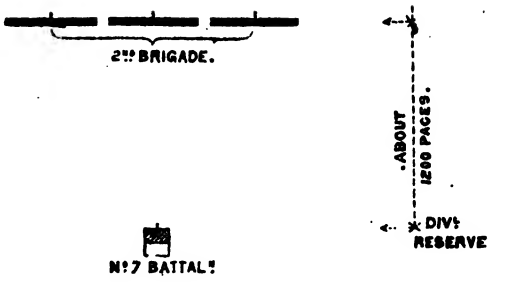
Fighting line firing in rank entire, advancing by alternate rushes, supports in two ranks moving as convenient. Main body deployed with intervals between companies.



2nd Stage.

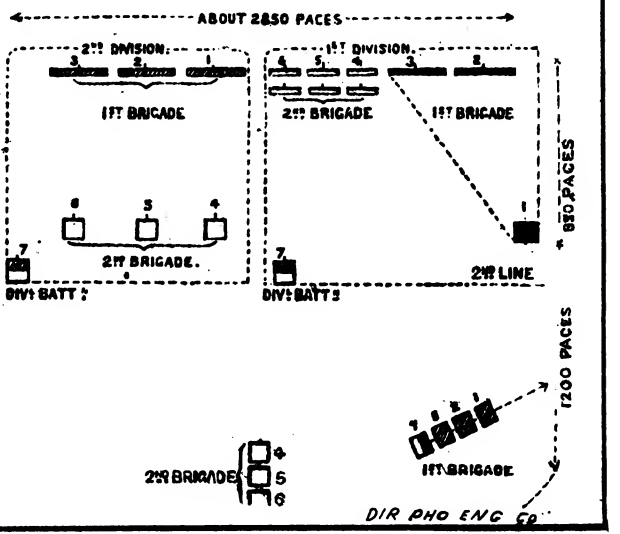
1st Stage about 2000 yards from enemy's position (500 to 600 paces from enemy's position.

A Battalion Attc



1st line formed of one Brigade.
2nd line formed of the other Brigade.
7th Battalion as Divisional Reserve.
AN ARMY CORPS.

Showing the different formations for Battalions, Brigades, and Divisions.



Digitized by Google
UNIV. OF MICH.

Digitized by Google

Digitized by Google

The Regiment in Oblique Echelon of Troops to the Right (or Regimental Half-column of Troops from the Right.)

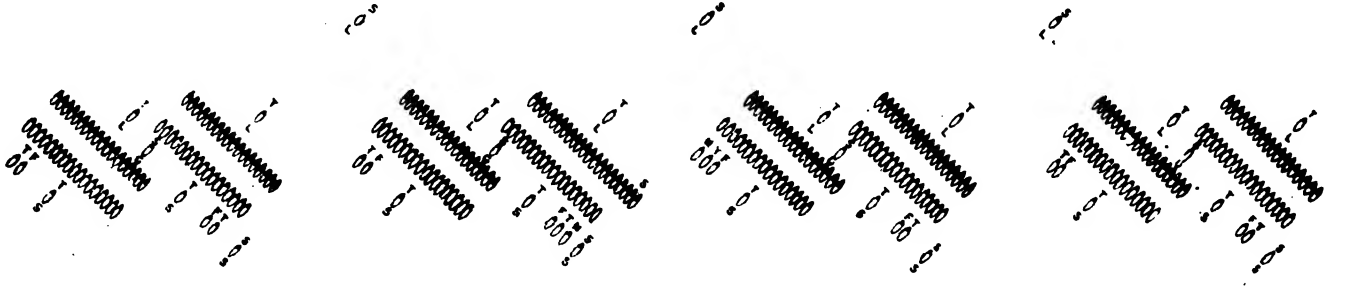


Fig 1.

Squadron of 36 files in fours advancing from the Right

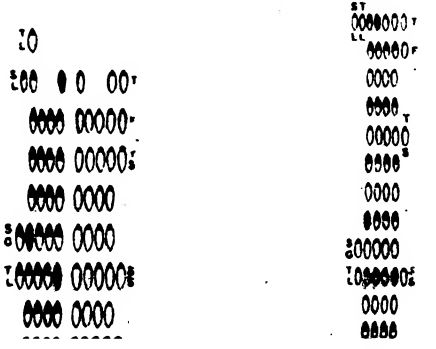


Fig 2

Squadron of 36 files in Column of Sections advancing from the Right

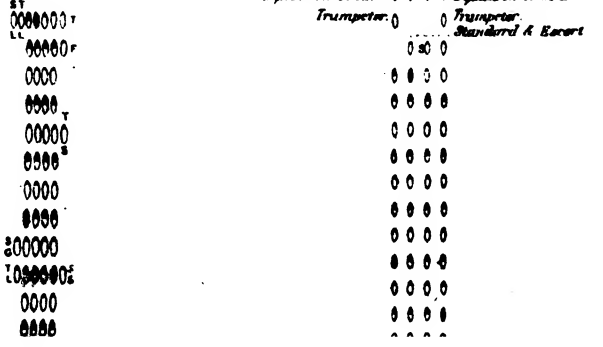
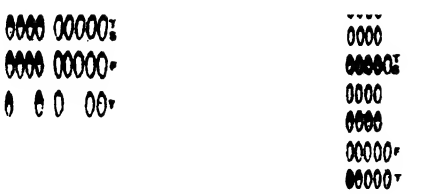
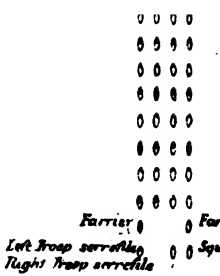


Fig 3.

Squadron of 36 files with Standard ranking past by Sections from the Right.

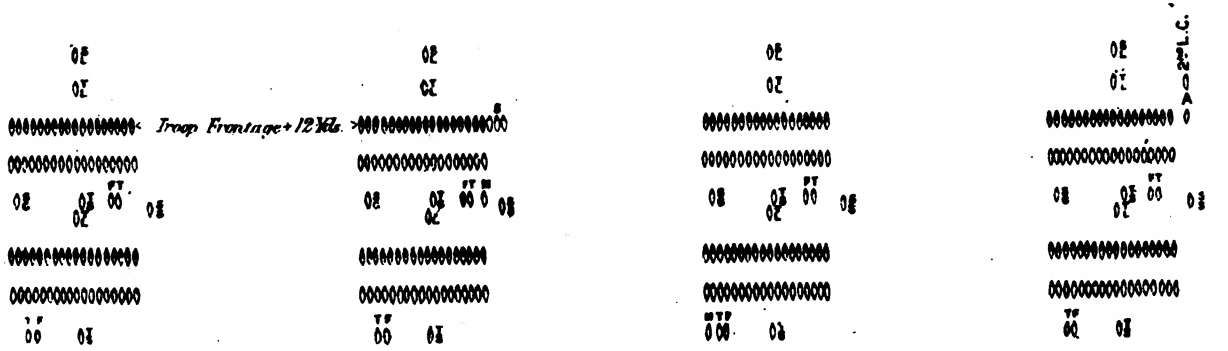
Digitized by Google

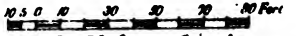




Note. *The Scale of Figs. 1, 2 and 3, is 60. 80 and 120 feet to 1 inch respectively*

The Regiment in Line of Squadron Columns.





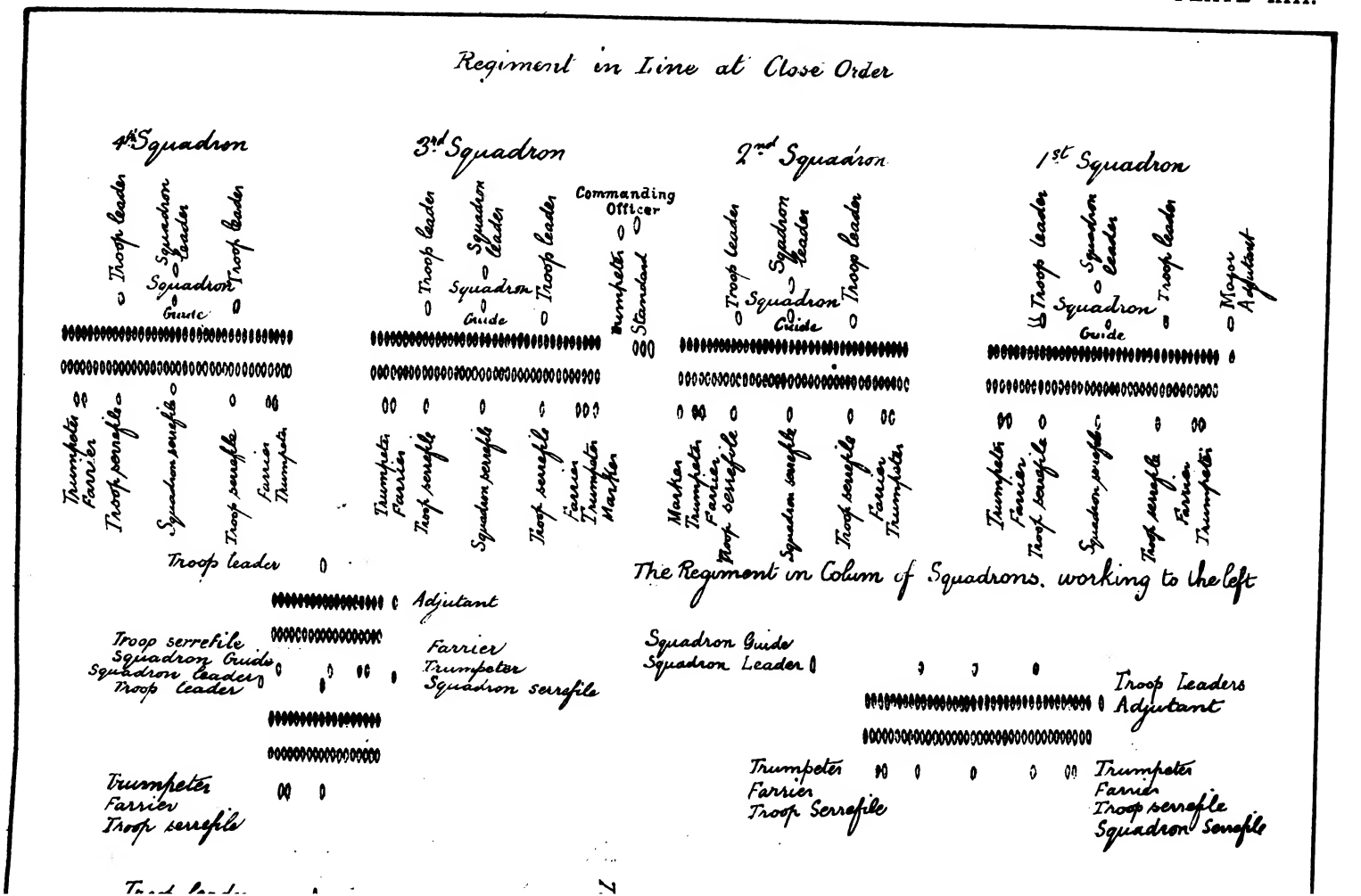
Scale 80 feet to 1 inch.

DIR PHO ENG C?

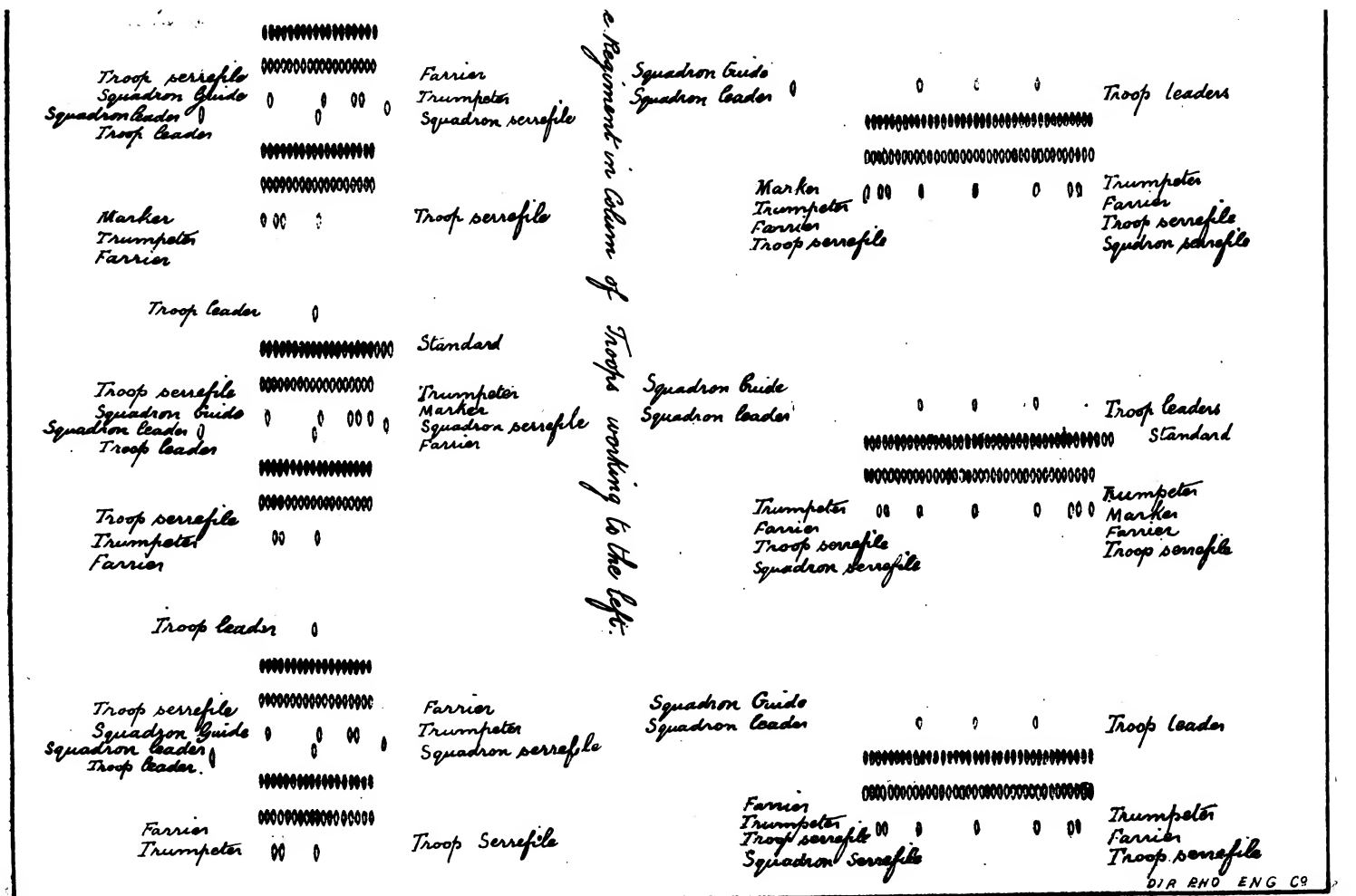
Digitized by Google
UNIV. OF MICH.

Digitized by Google

Digitized by Google



Digitized by Google

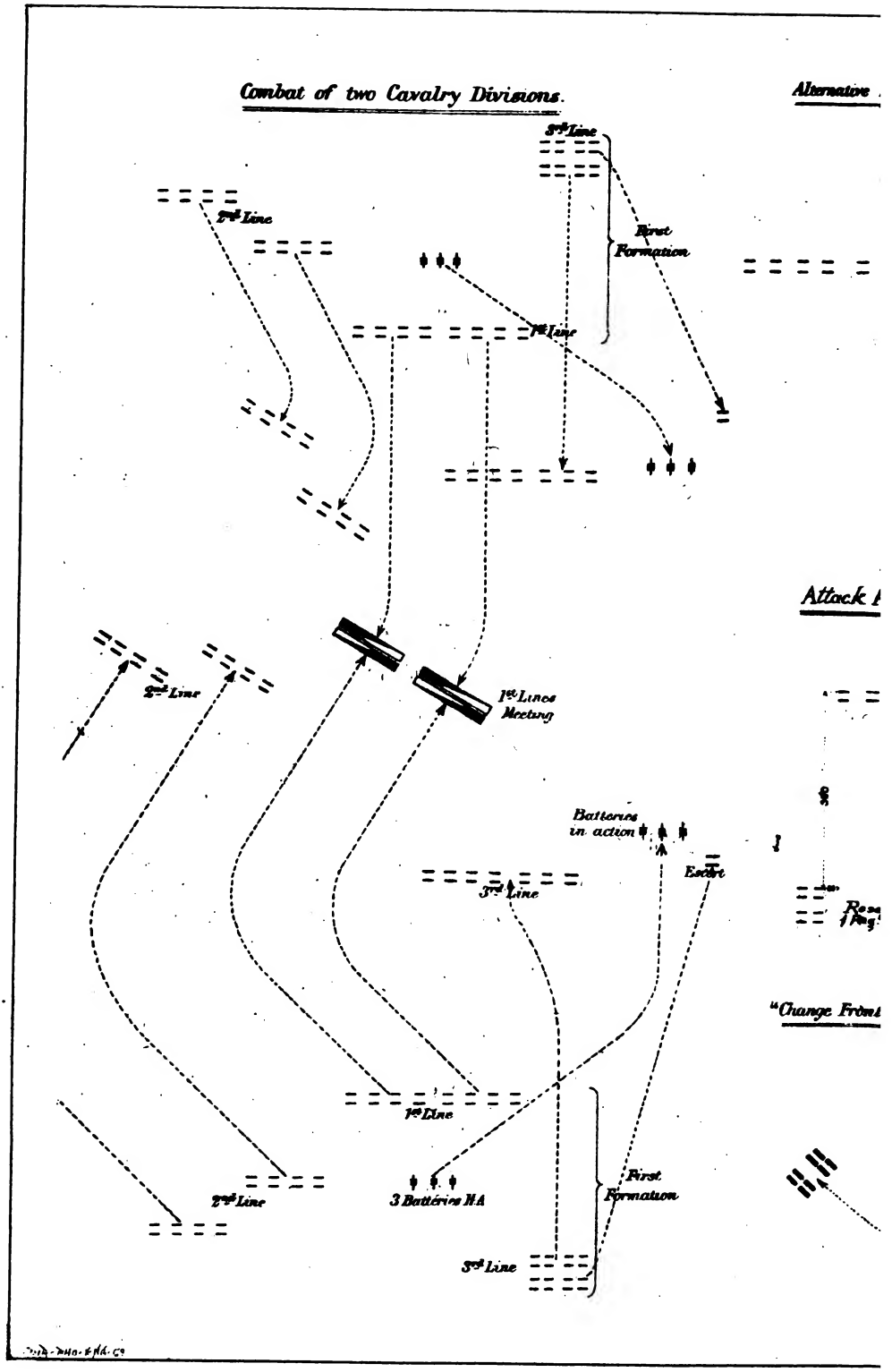


CAVALRY DRILL BOOK FORMATIONS.

Digitized by Google

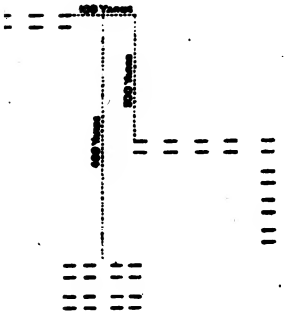
Digitized by Google

Digitized by Google

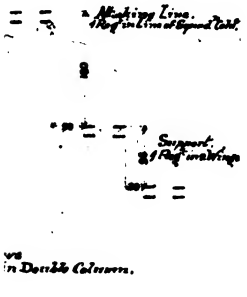


Digitized by Google

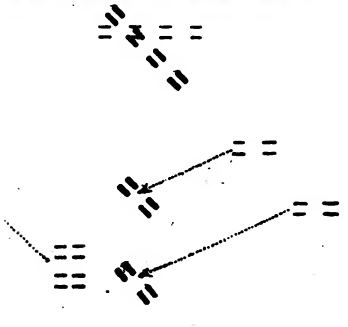
rmation of the Division.



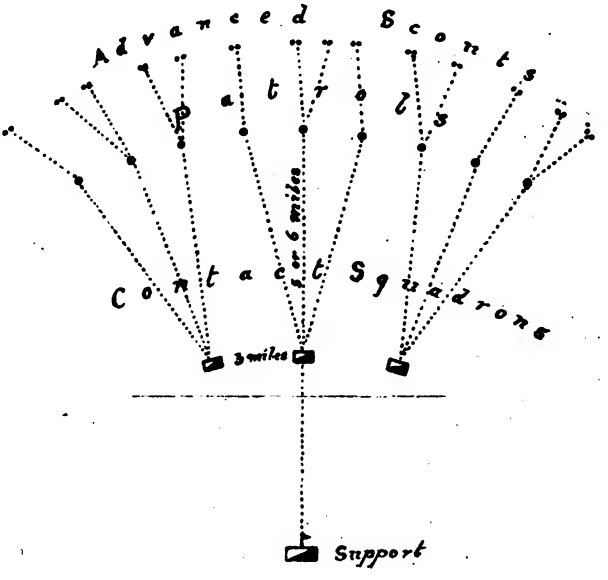
rmation of a Brigade.



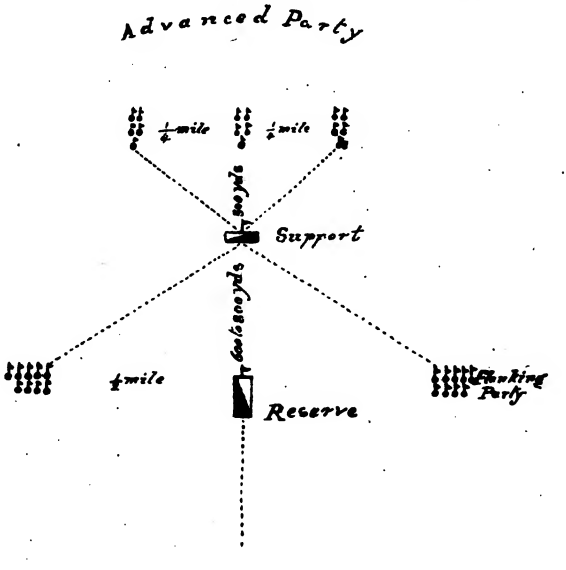
Half Right Back on the 1st Line.



A Regiment Reconnoitring.



Advanced Guard Formation of a Squadron.

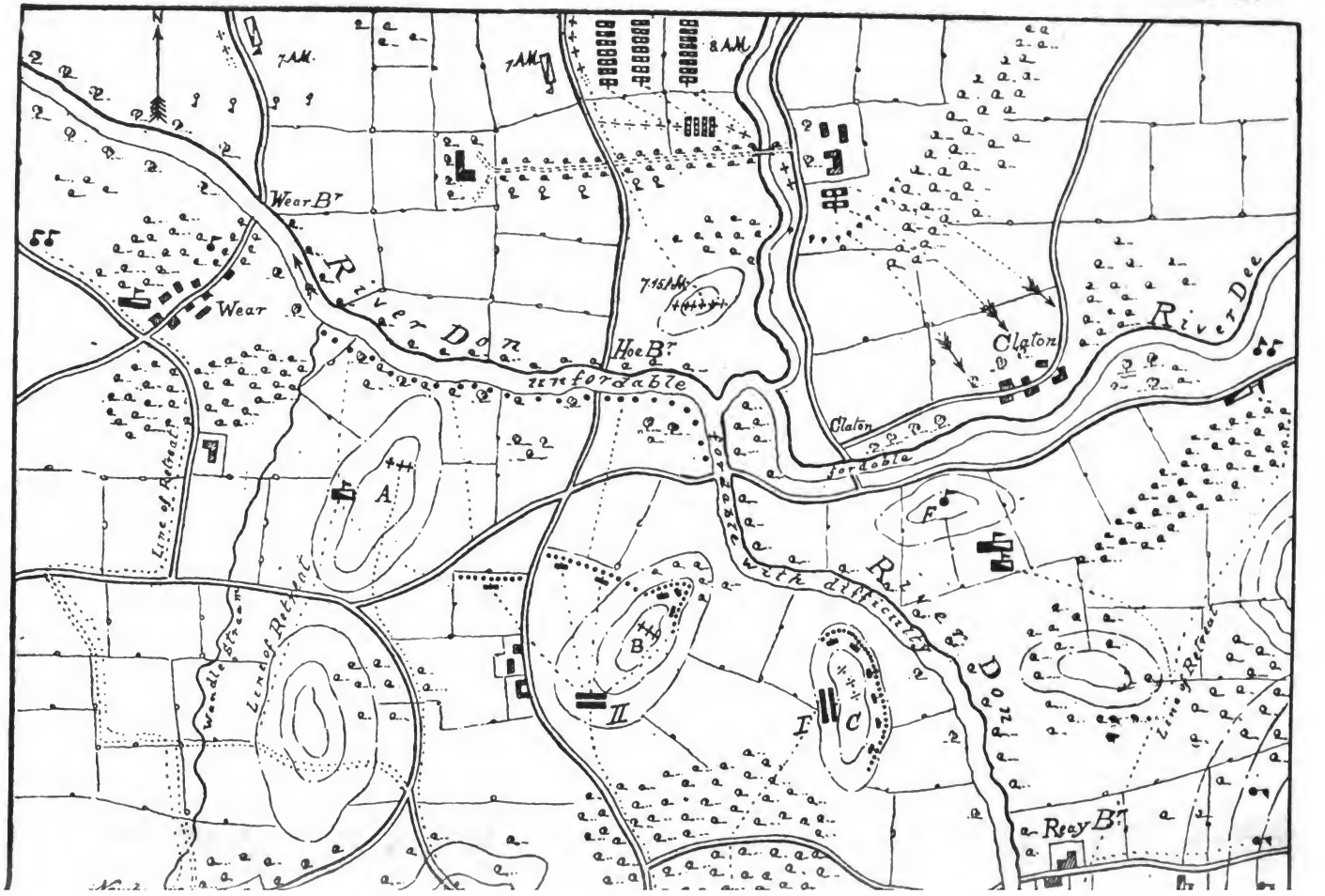


Digitized by Google
UNIV. OF MICH.

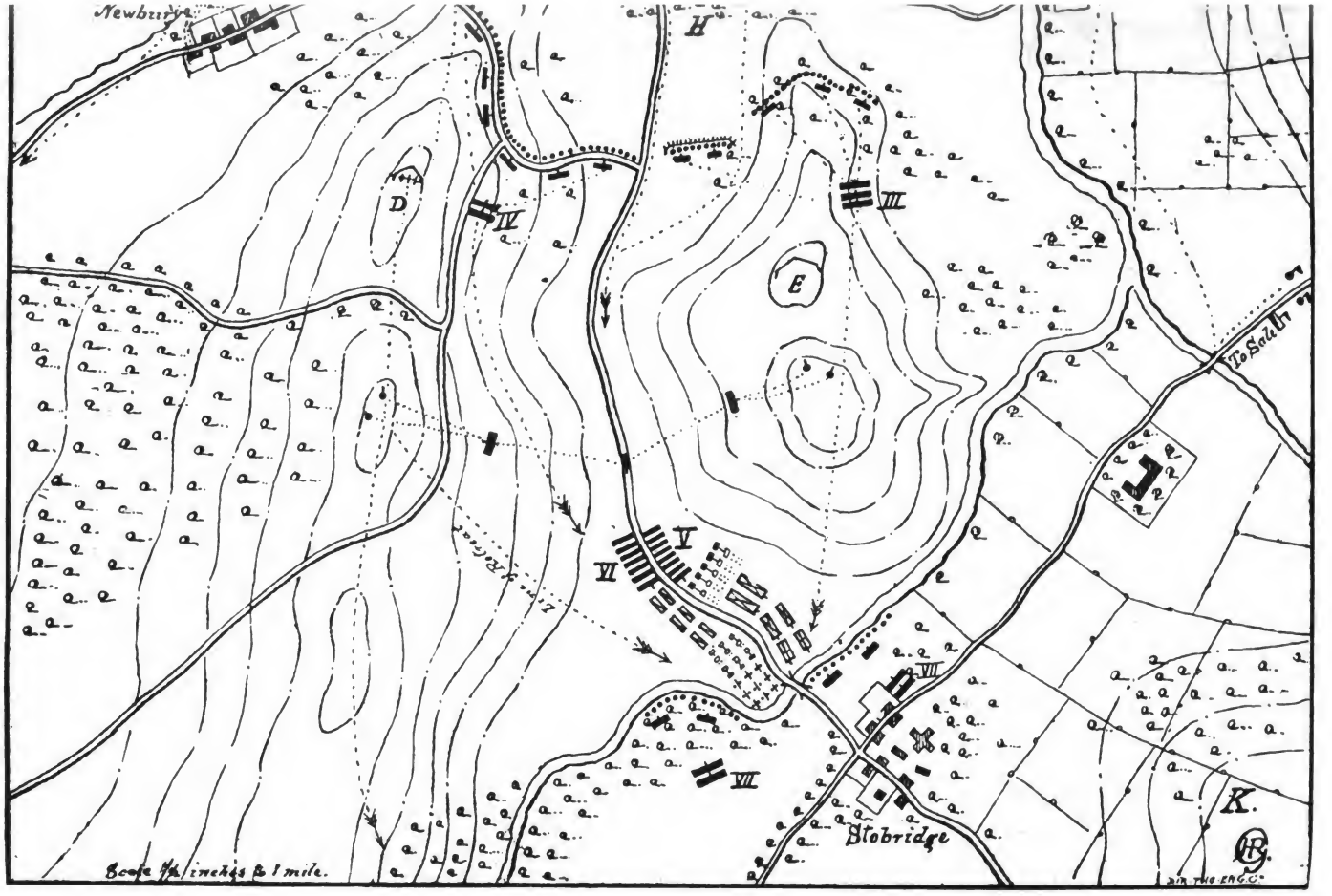
Digitized by Google

Digitized by Google

PLATE XV.



Digitized by Google

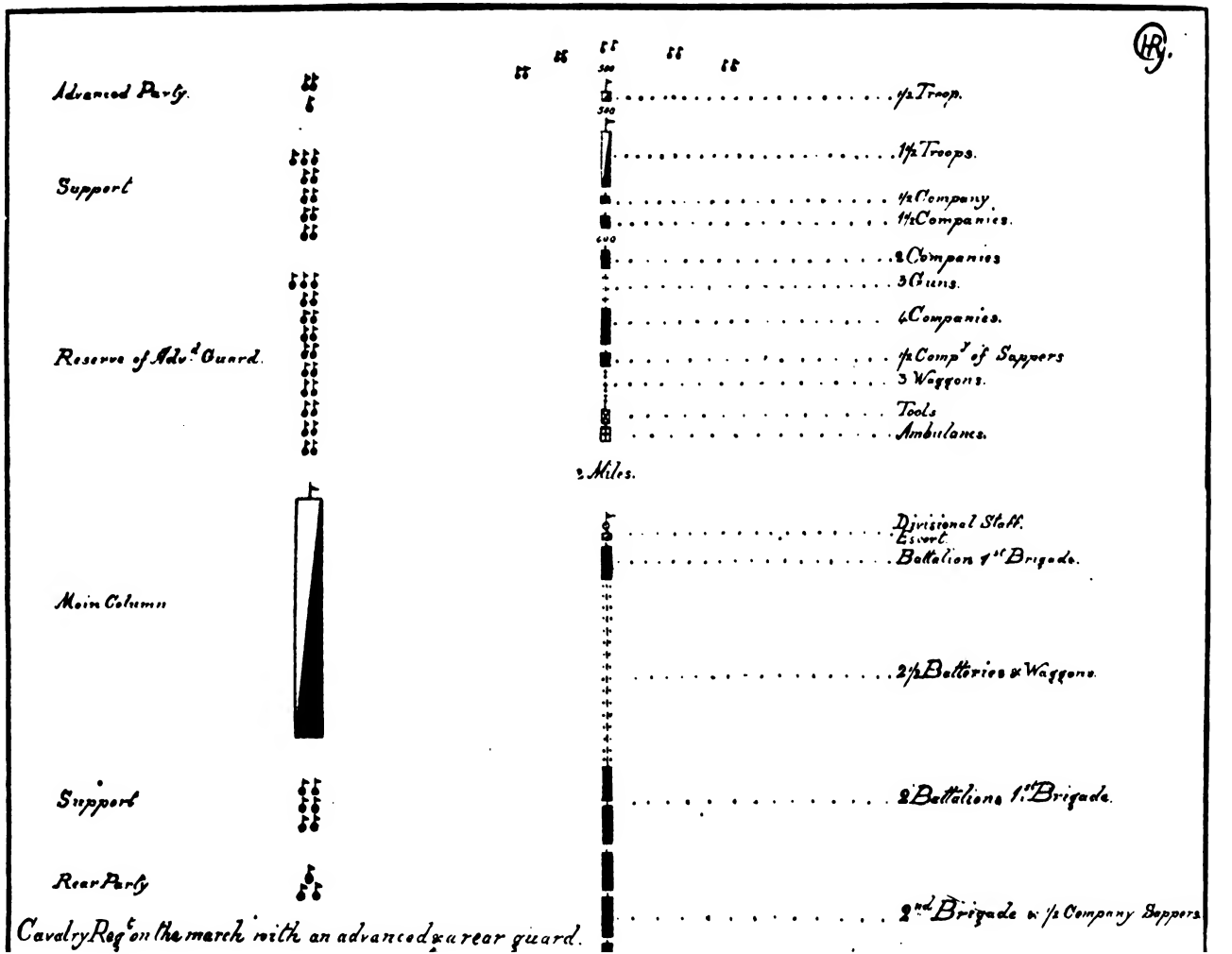


A REAR-GUARD ACTION.

Digitized by Google
UNIV. OF WICH.

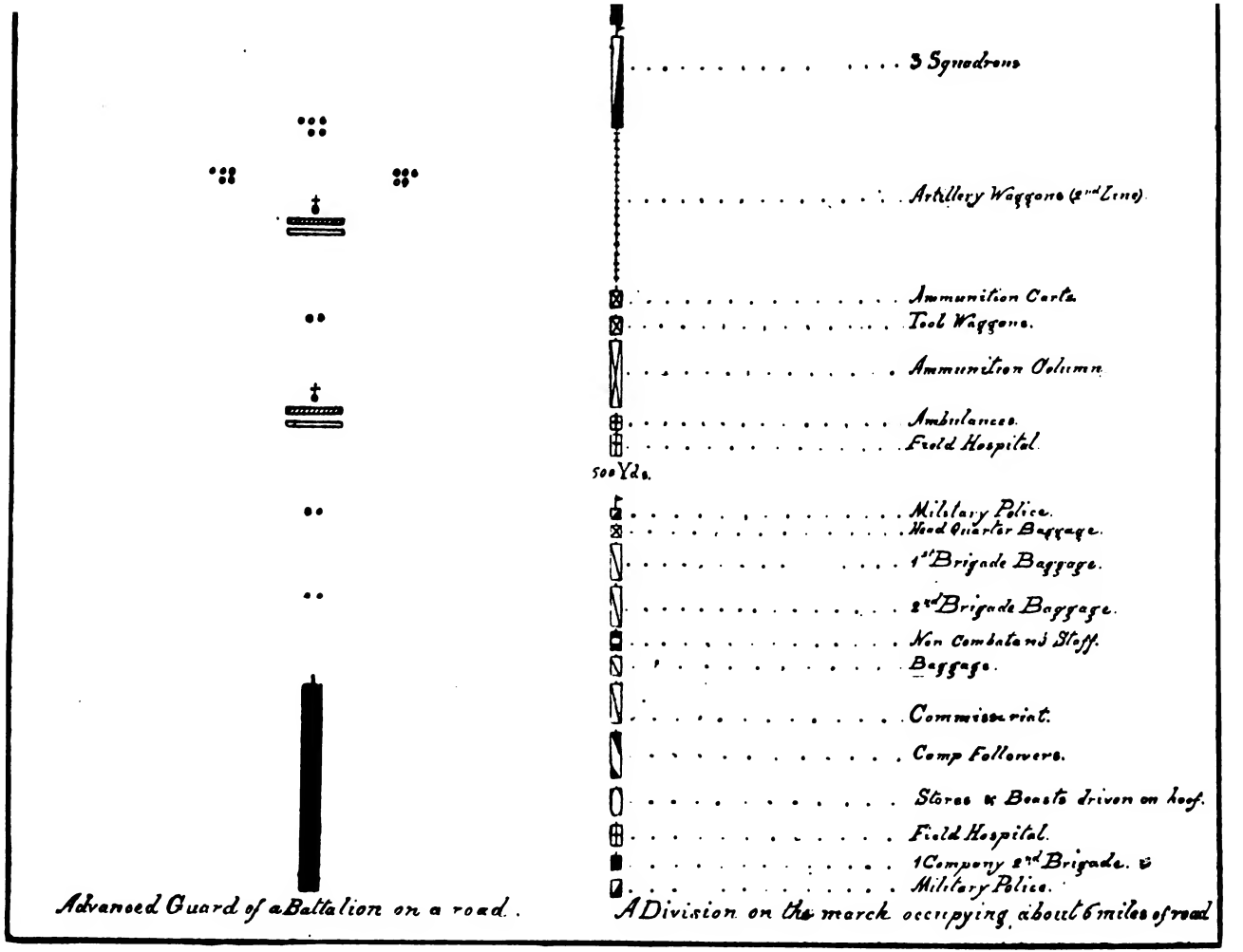
Digitized by Google

Digitized by Google



Cavalry Reg.t on the march with an advanced & a rear guard.

Digitized by Google



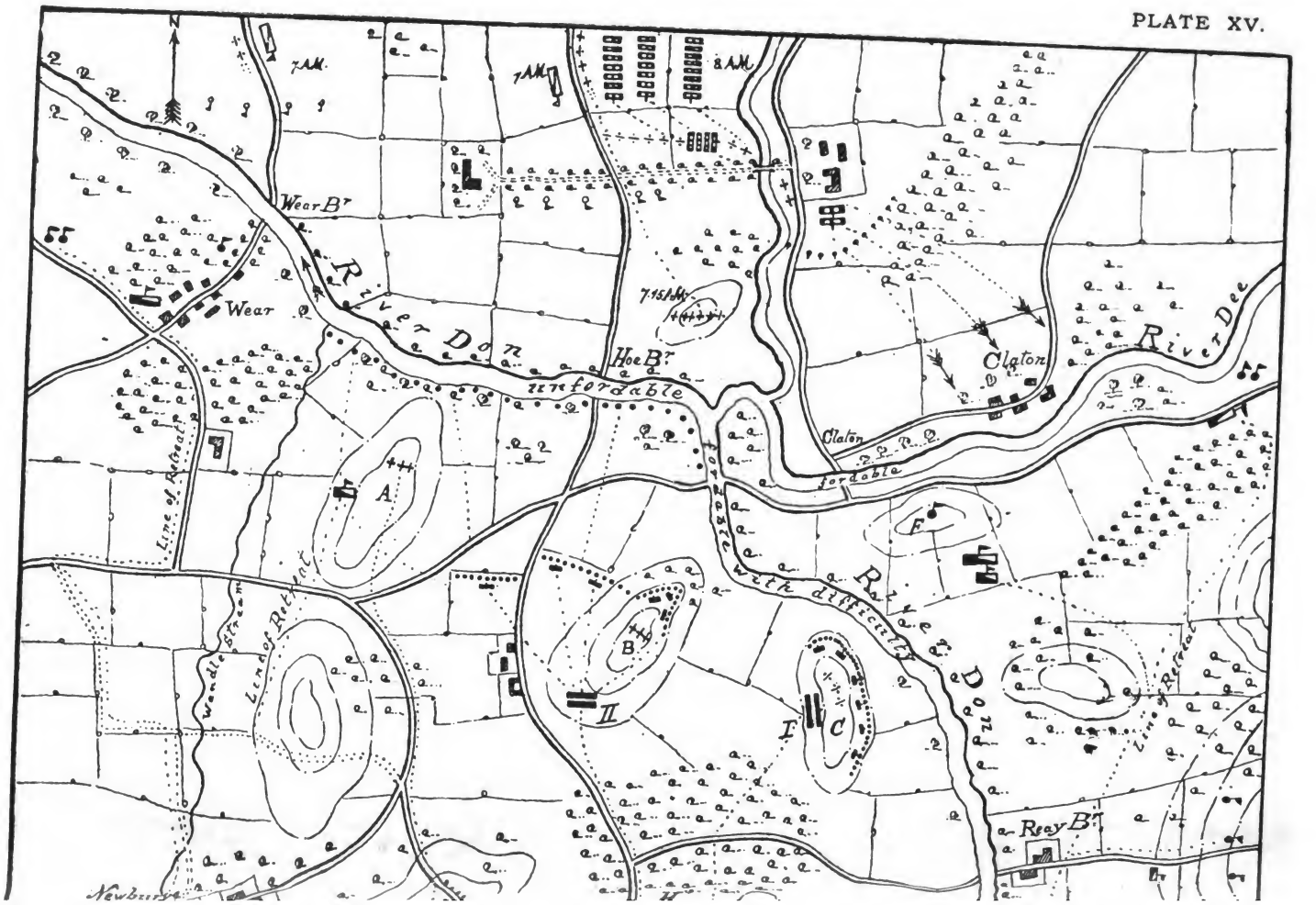
FORMATIONS OF TROOPS ON THE LINE OF MARCH.

The Division is in accordance with Field Exercise, 1884.

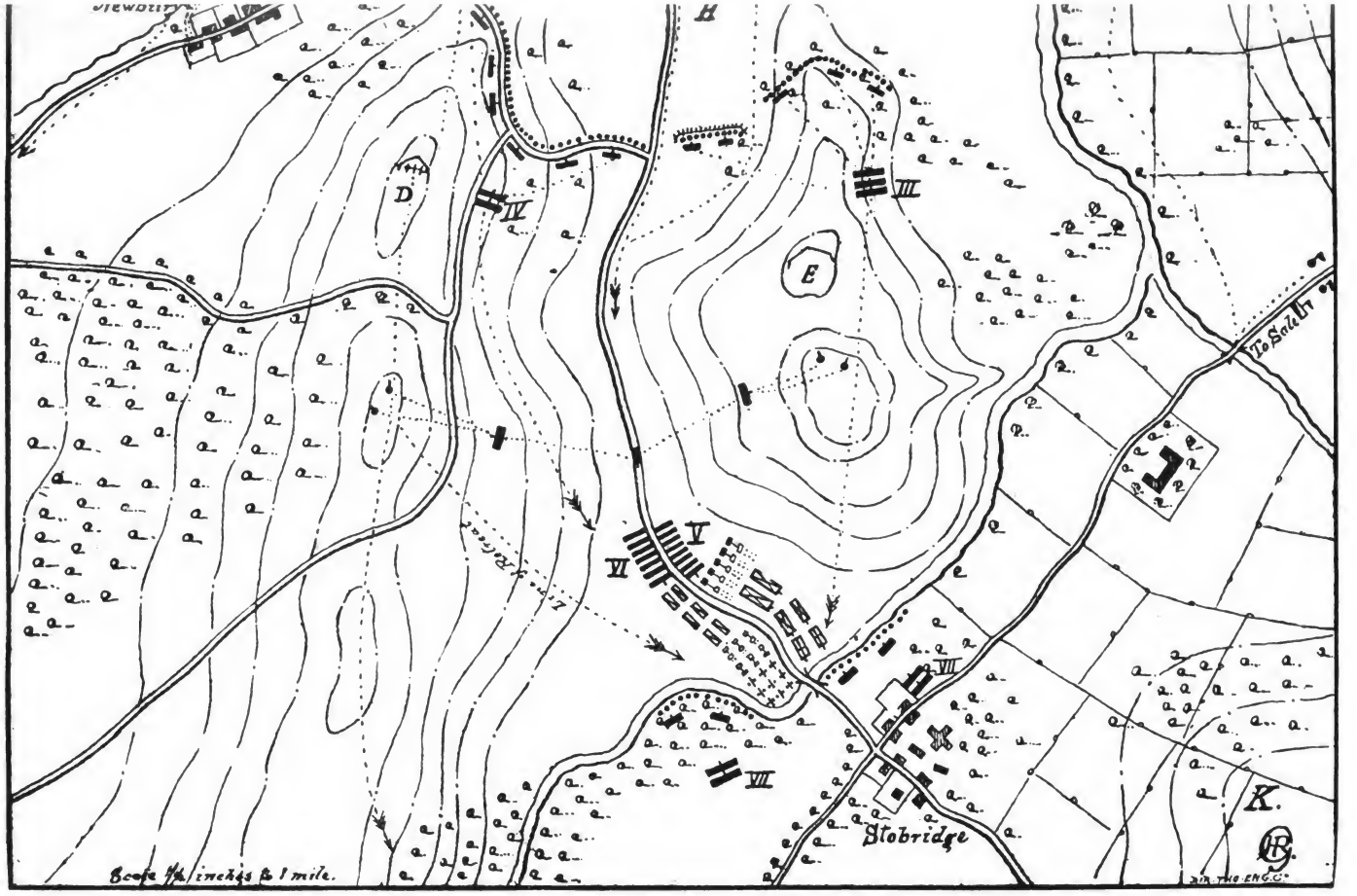
Digitized by Google
UNIV. OF WISC.

Digitized by Google

Digitized by Google



Digitized by Google

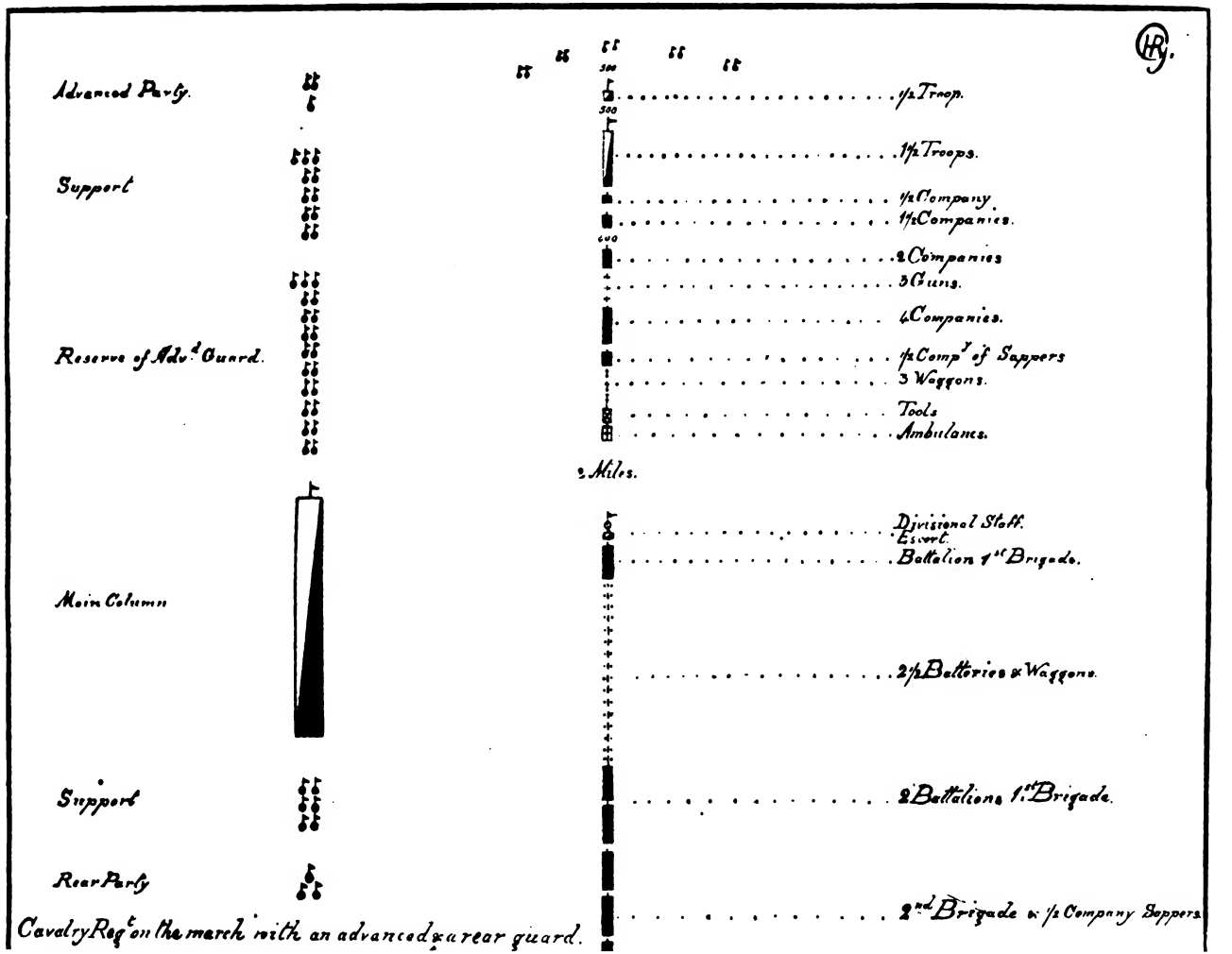


A REAR-GUARD ACTION.

Digitized by Google
UNIV. OF WICH.

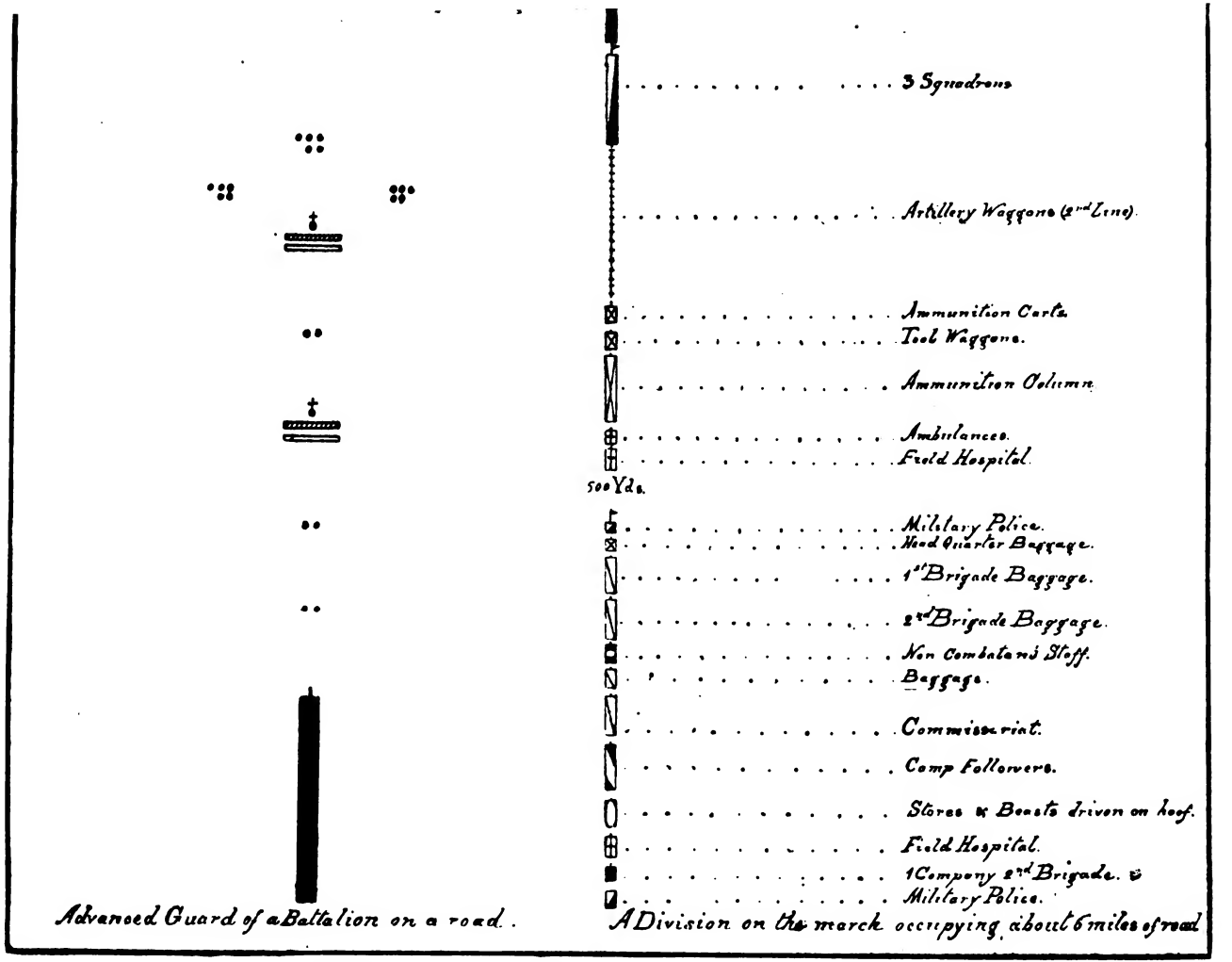
Digitized by Google

Digitized by Google



Cavalry Regt on the march with an advanced & a rear guard.

Digitized by Google



FORMATIONS OF TROOPS ON THE LINE OF MARCH.

The Division is in accordance with Field Exercise, 1884.

Digitized by Google
UNIV. OF MICH.

Digitized by Google

Digitized by Google

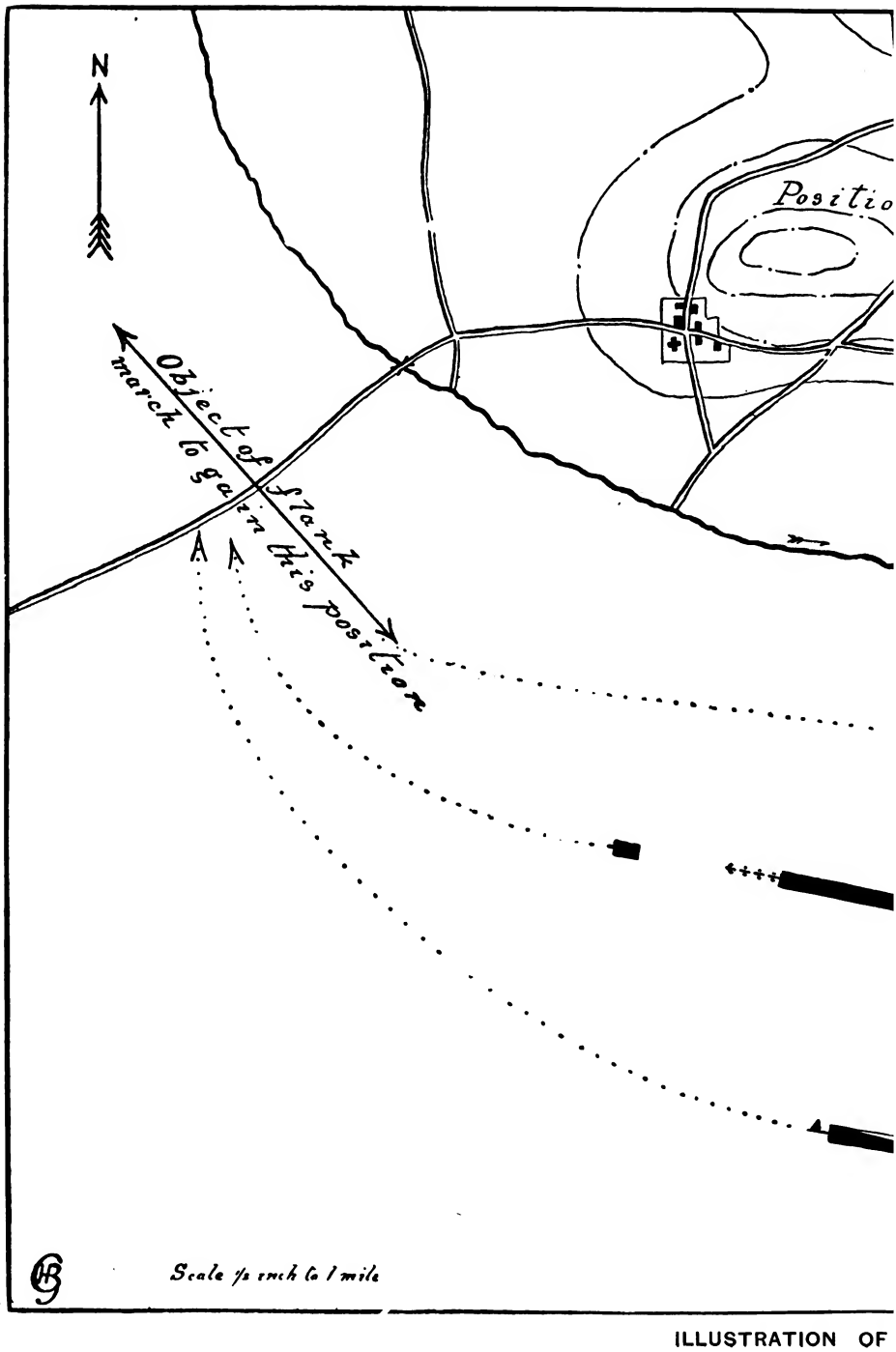


ILLUSTRATION OF

Digitized by Google

PLATE XVII.

A FLANK MARCH.

Digitized by Google
UNIV. of MICH.

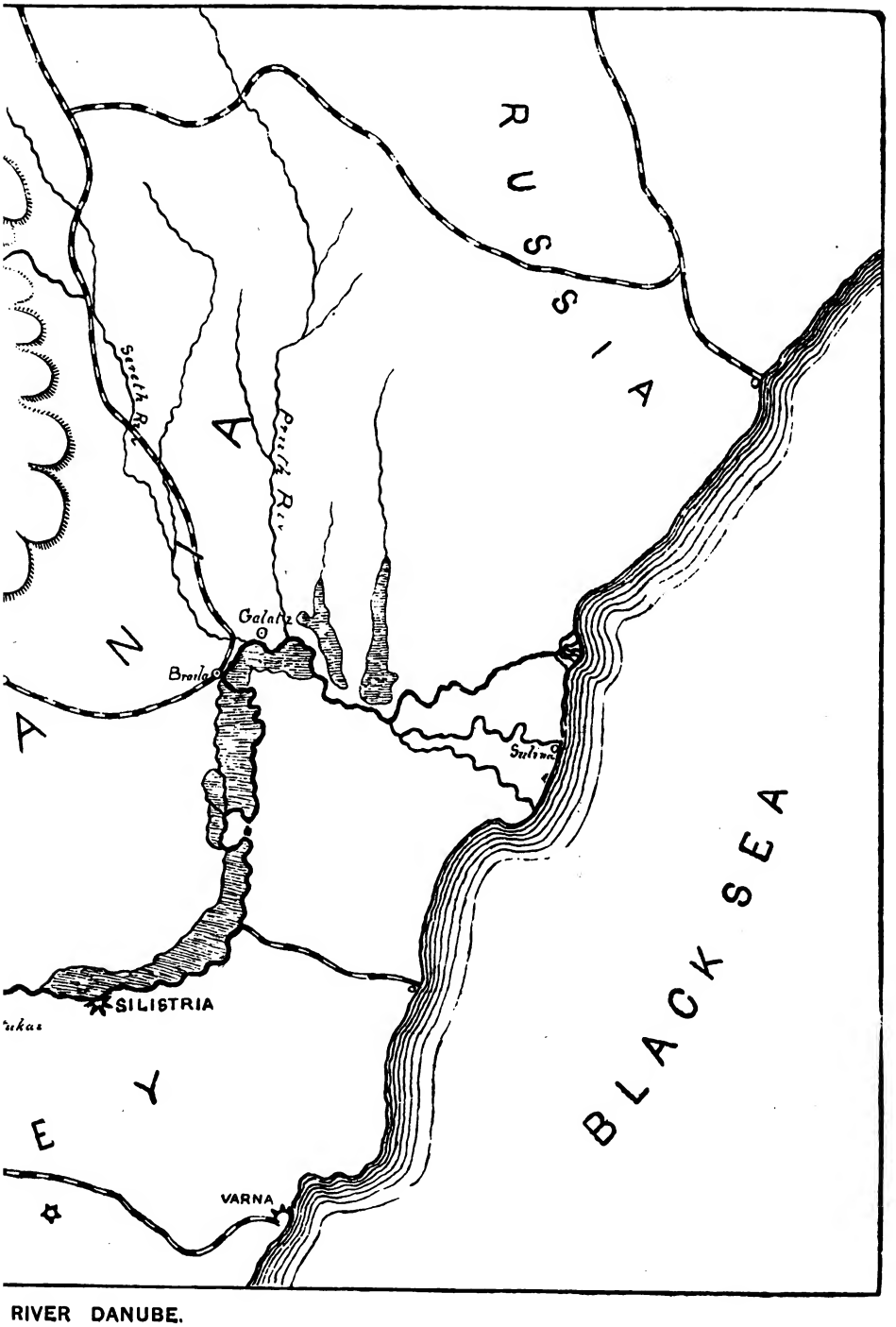
Digitized by Google

Digitized by Google

MAP OF THE

Digitized by Google

PLATE XVIII.

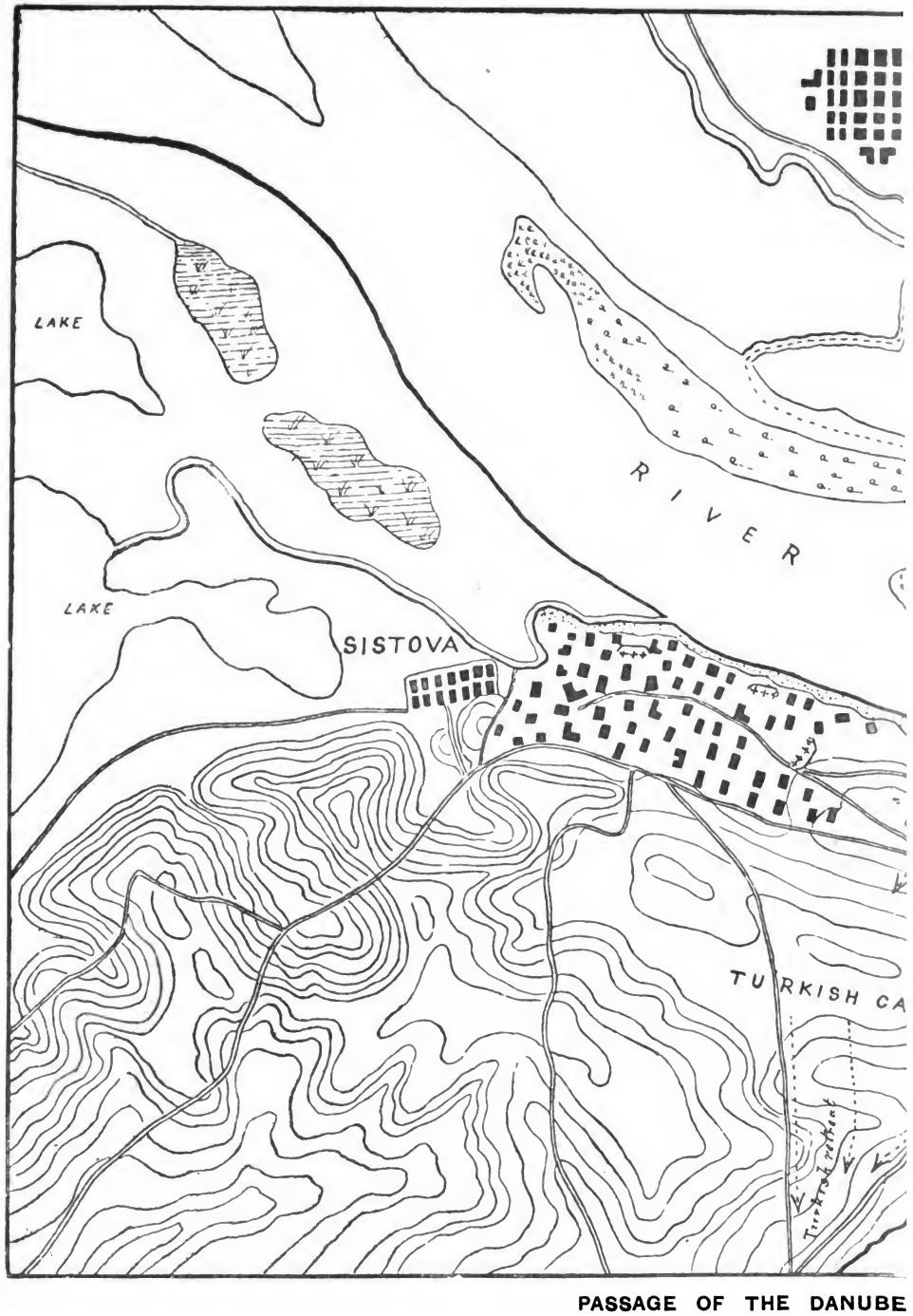


RIVER DANUBE.

UNIV. OF MICH.
Digitized by Google

Digitized by Google

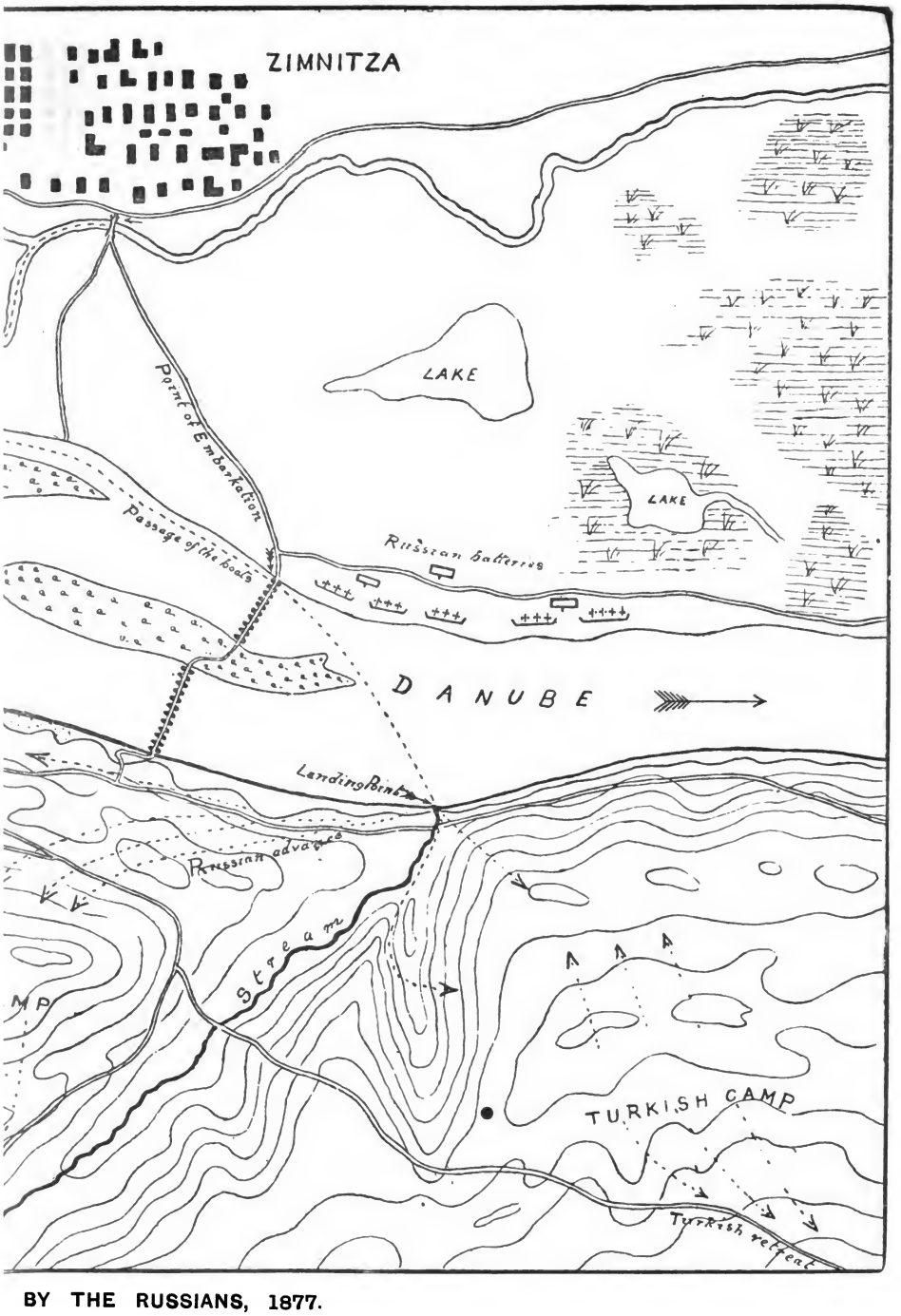
Digitized by Google



PASSAGE OF THE DANUBE

Digitized by Google

PLATE XIX.

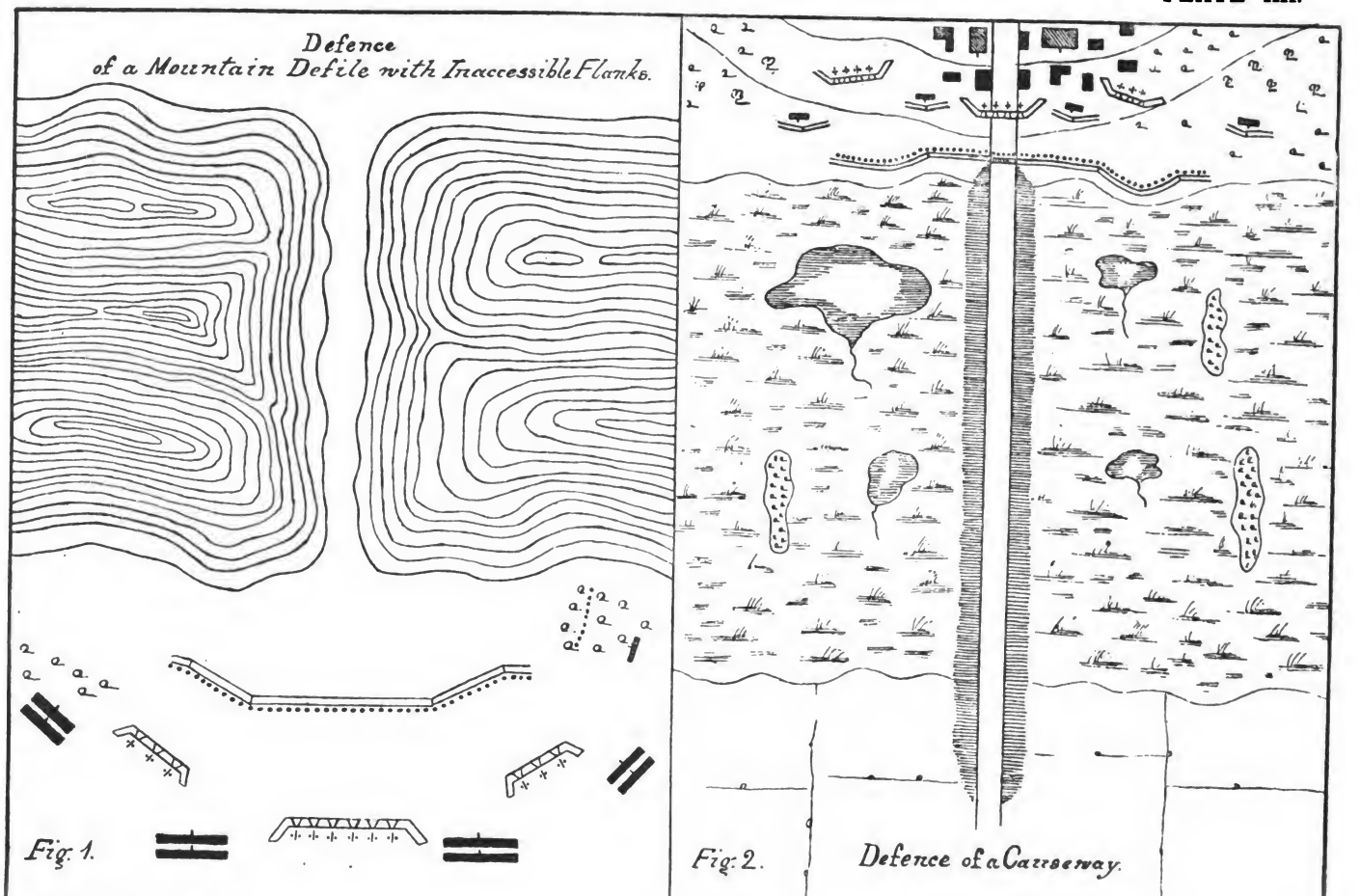


BY THE RUSSIANS, 1877.

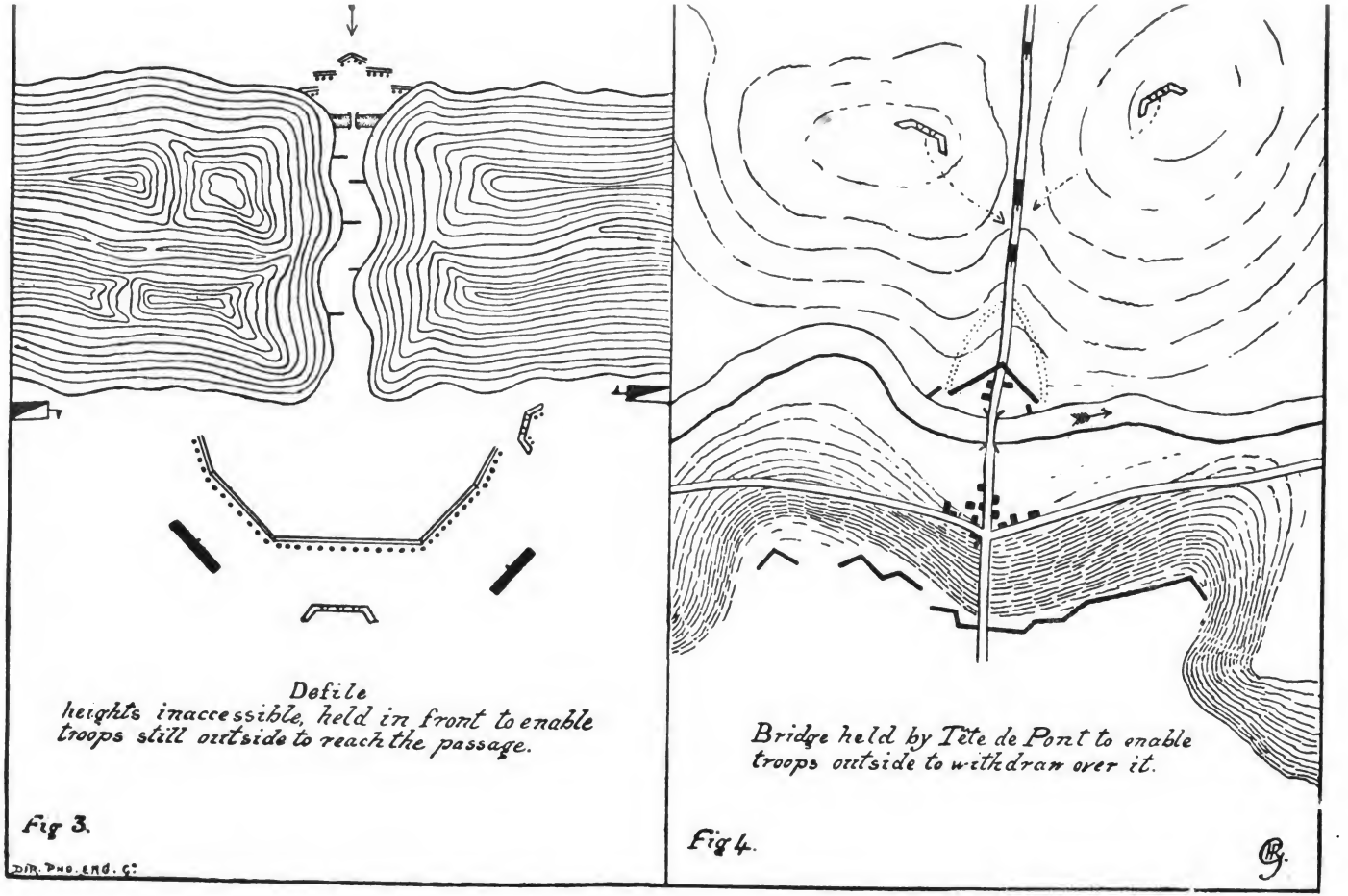
Digitized by Google
UNIV. OF MICH.

Digitized by Google

Digitized by Google



Digitized by Google

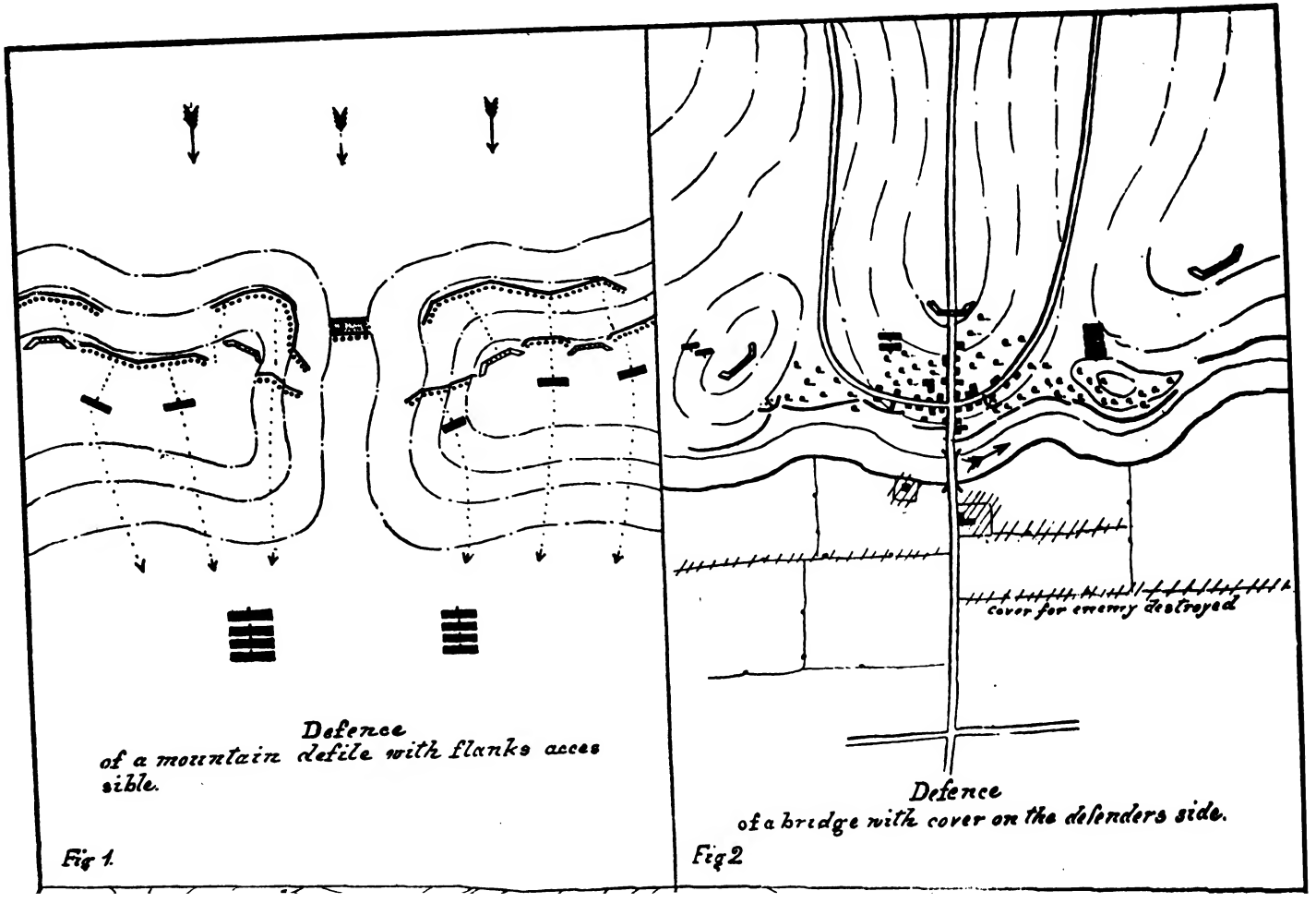


DEFILES.

Digitized by Google

Digitized by Google

Digitized by Google



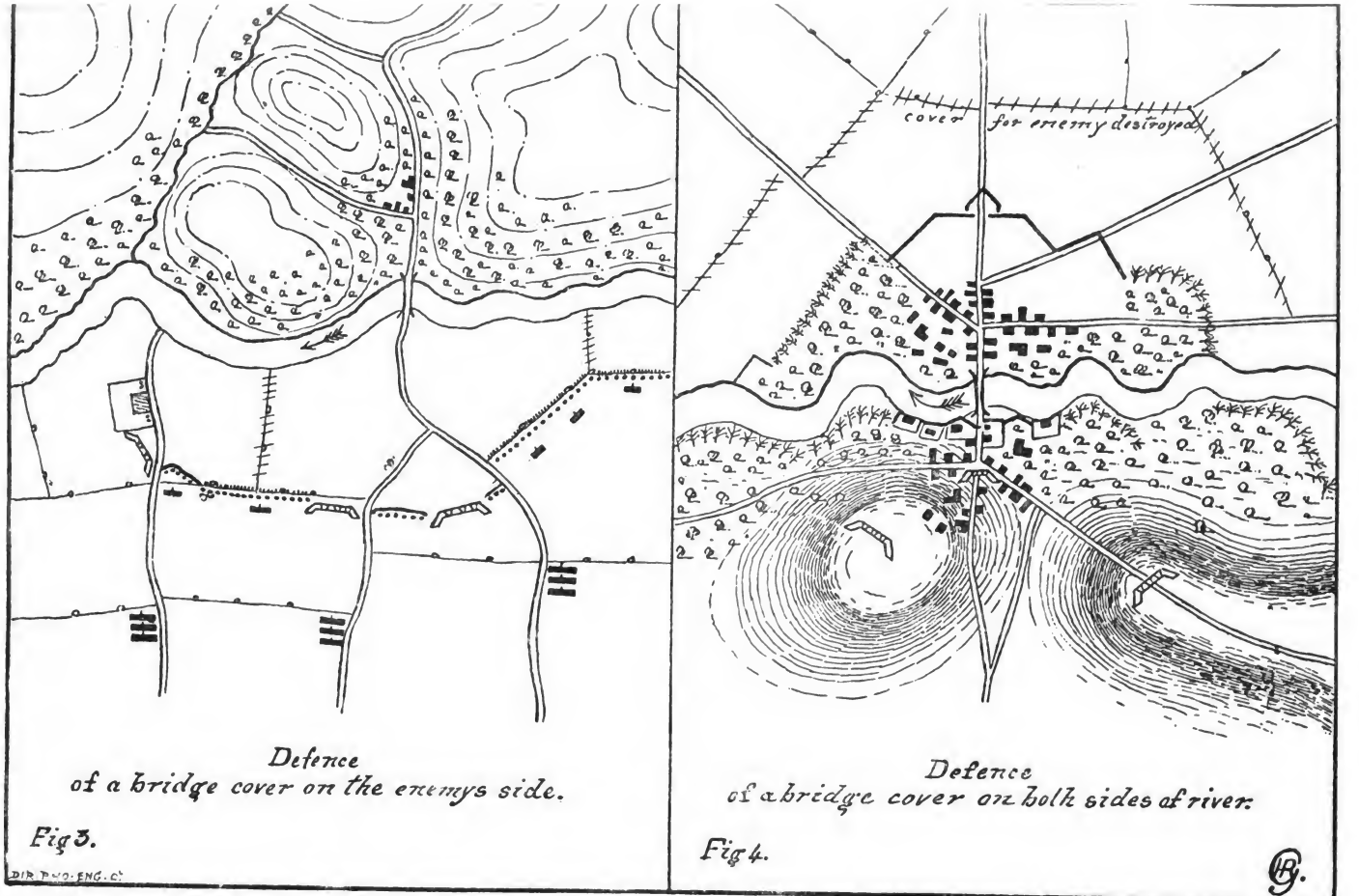
Defence
of a mountain defile with flanks acces sible.

Fig 1.

Defence
of a bridge with cover on the defenders side.

Fig 2

Digitized by Google



Defence
of a bridge cover on the enemys side.

Fig 3.

Defence
of a bridge cover on both sides of river.

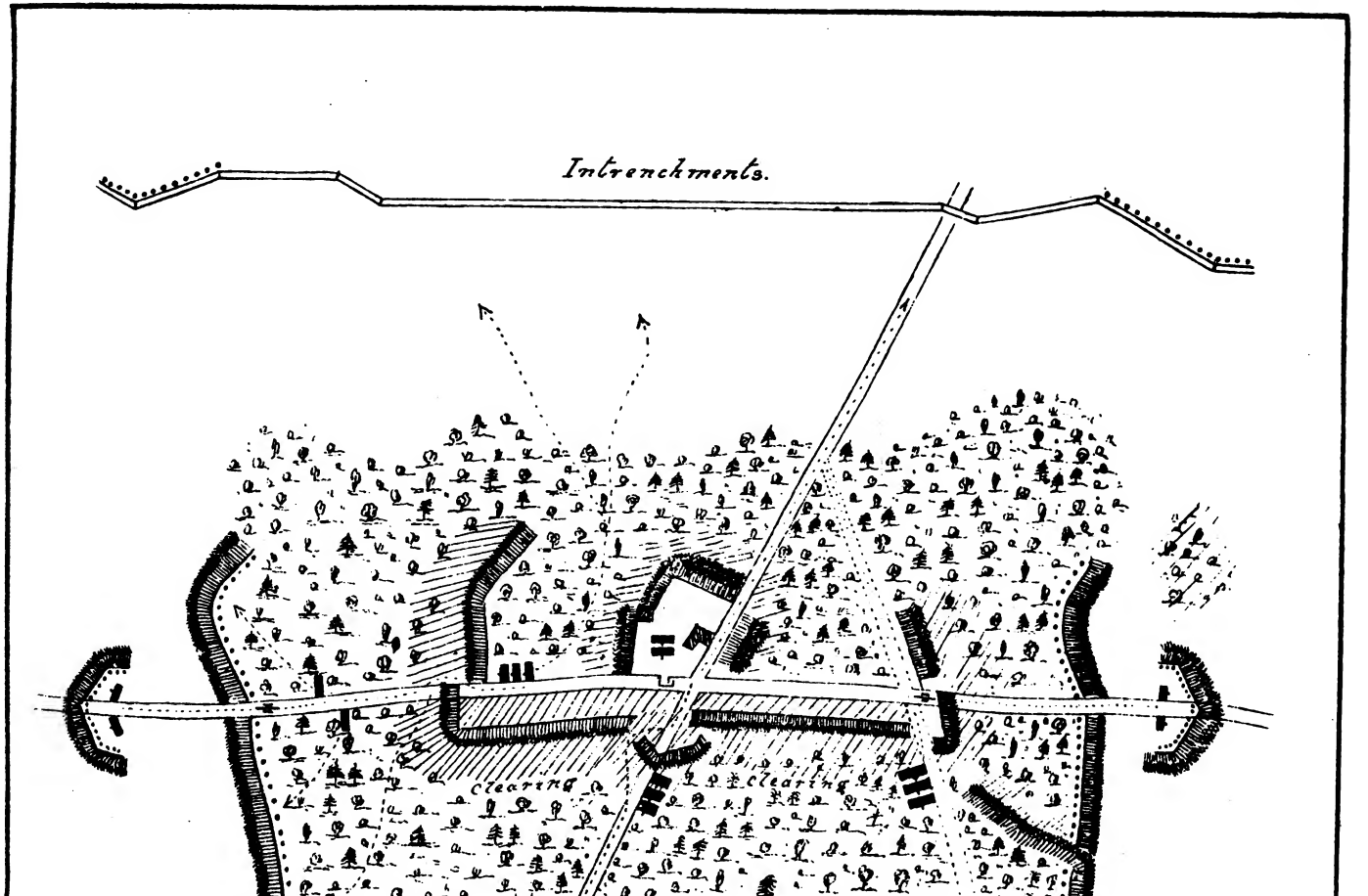
Fig 4.

DEFILES.

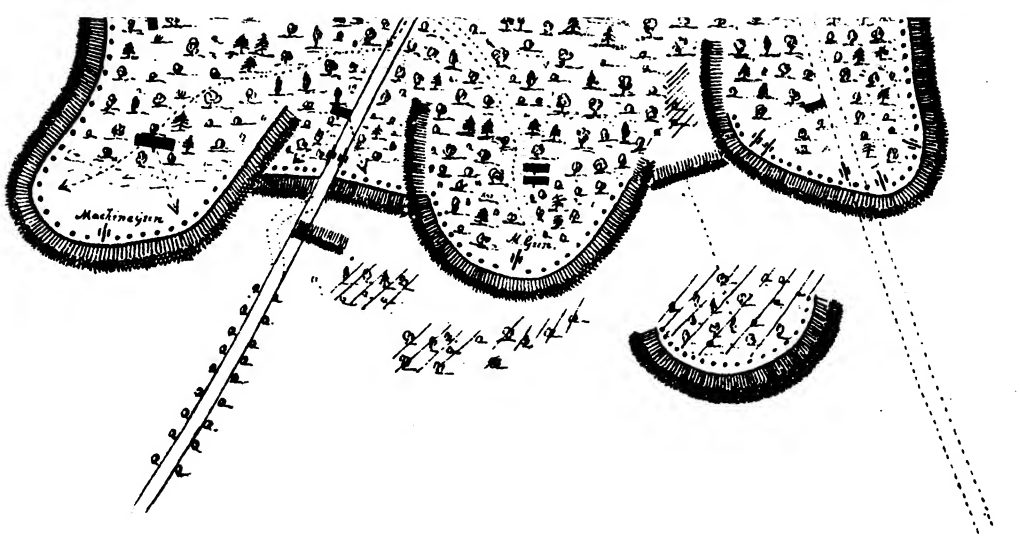
Digitized by Google

Digitized by Google

Digitized by Google



Digitized by Google



Garrison 3 battalions, 1½ batteries, & 2 machine guns.
Scale 12 inches to 1 mile.

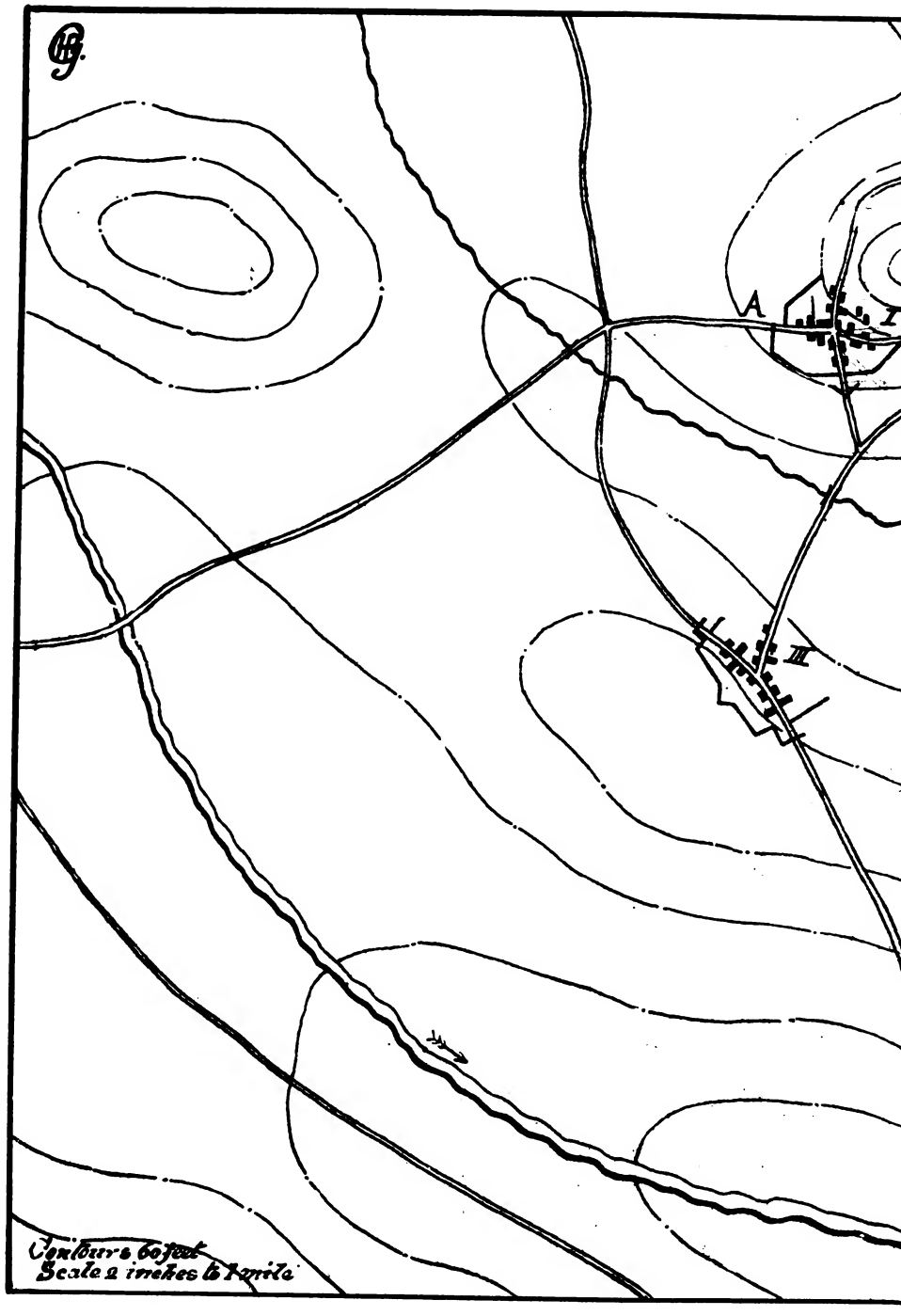
DIR. PHO. ENG. C.°

DEFENCE OF A WOOD HELD IN FRONT OF A POSITION.

Digitized by Google

Digitized by Google

Digitized by Google



FIVE CLASSES OF VILLAGES IN C

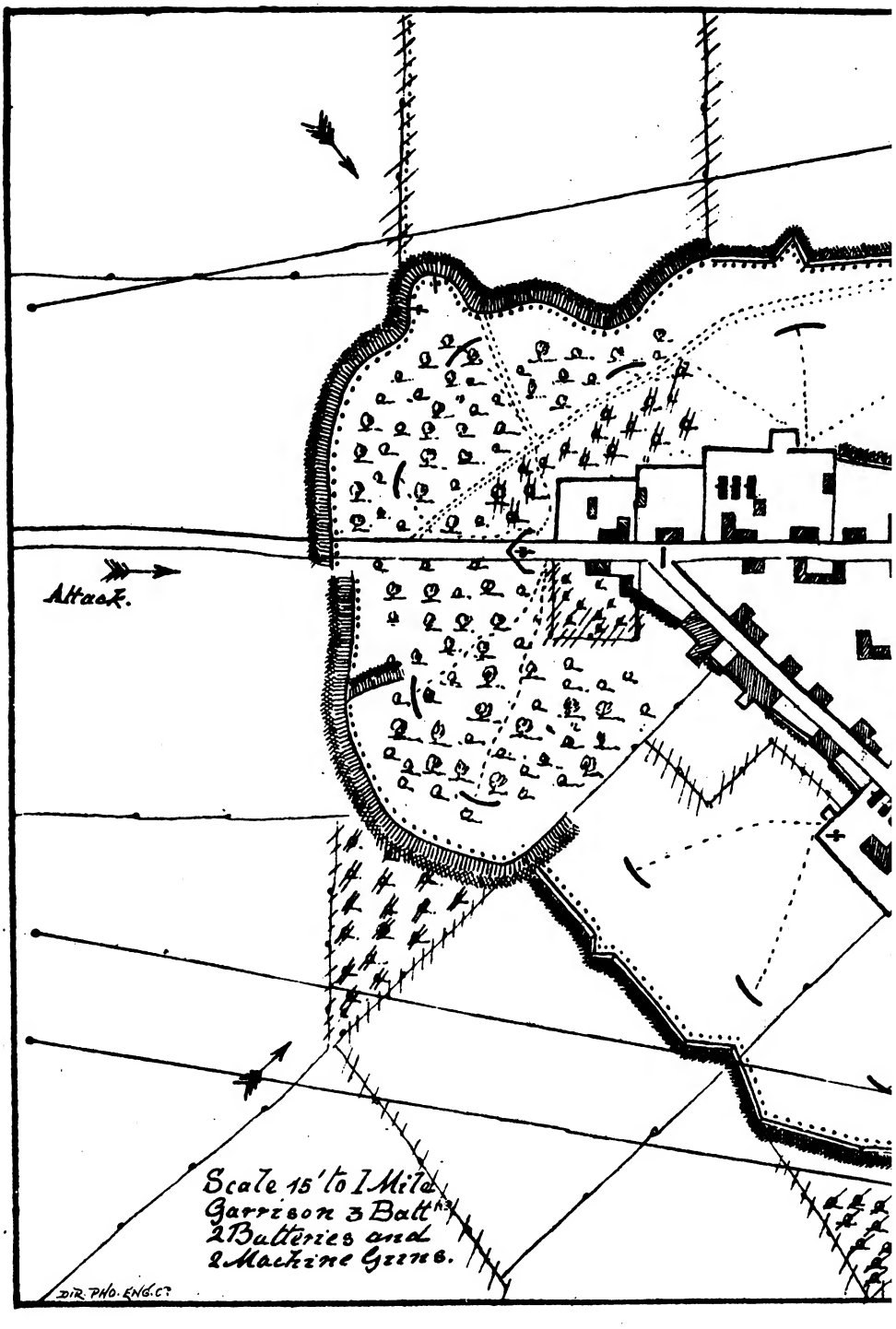
Digitized by Google

ONNECTION WITH A POSITION.

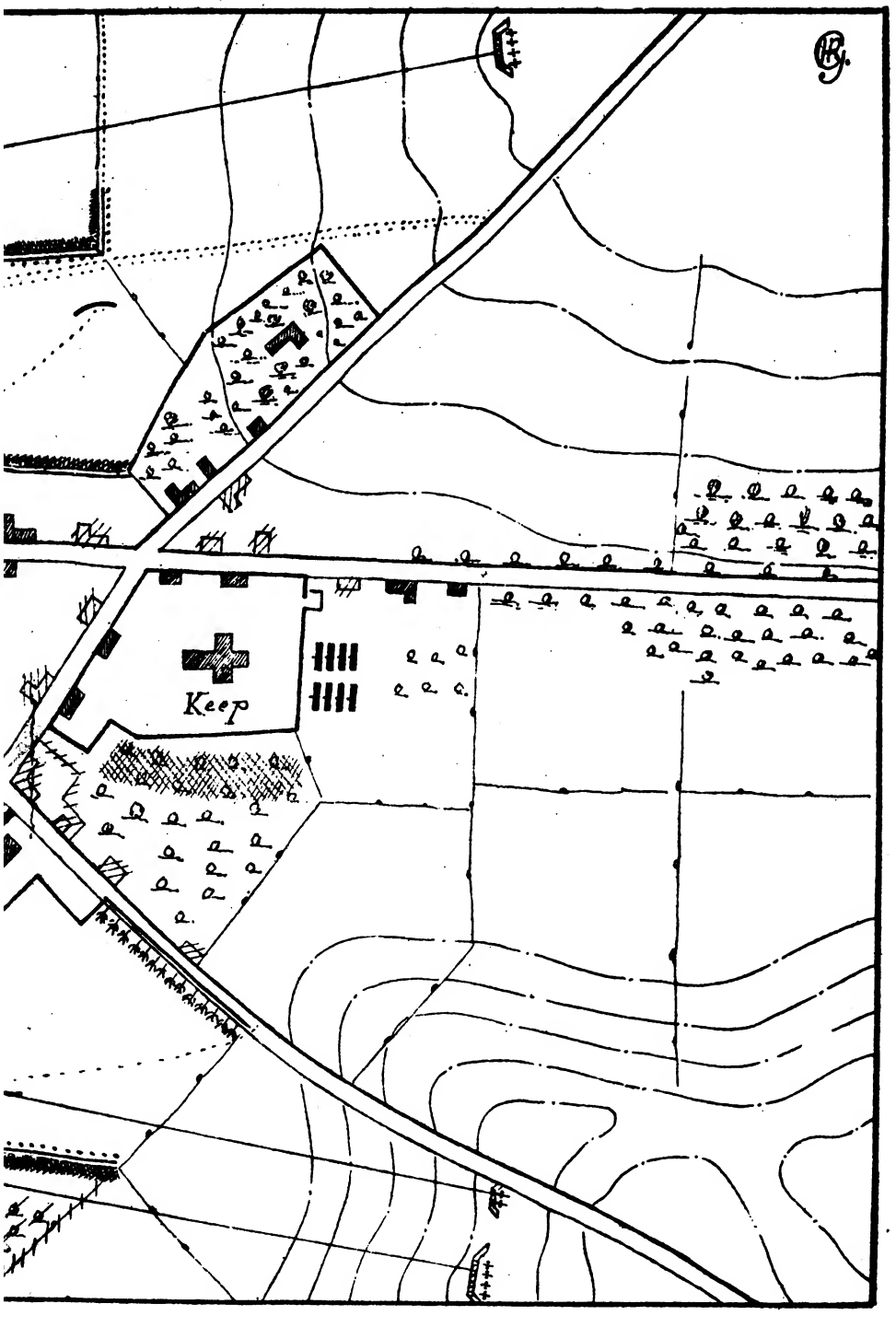
Digitized by Google

Digitized by Google

Digitized by Google



Digitized by Google

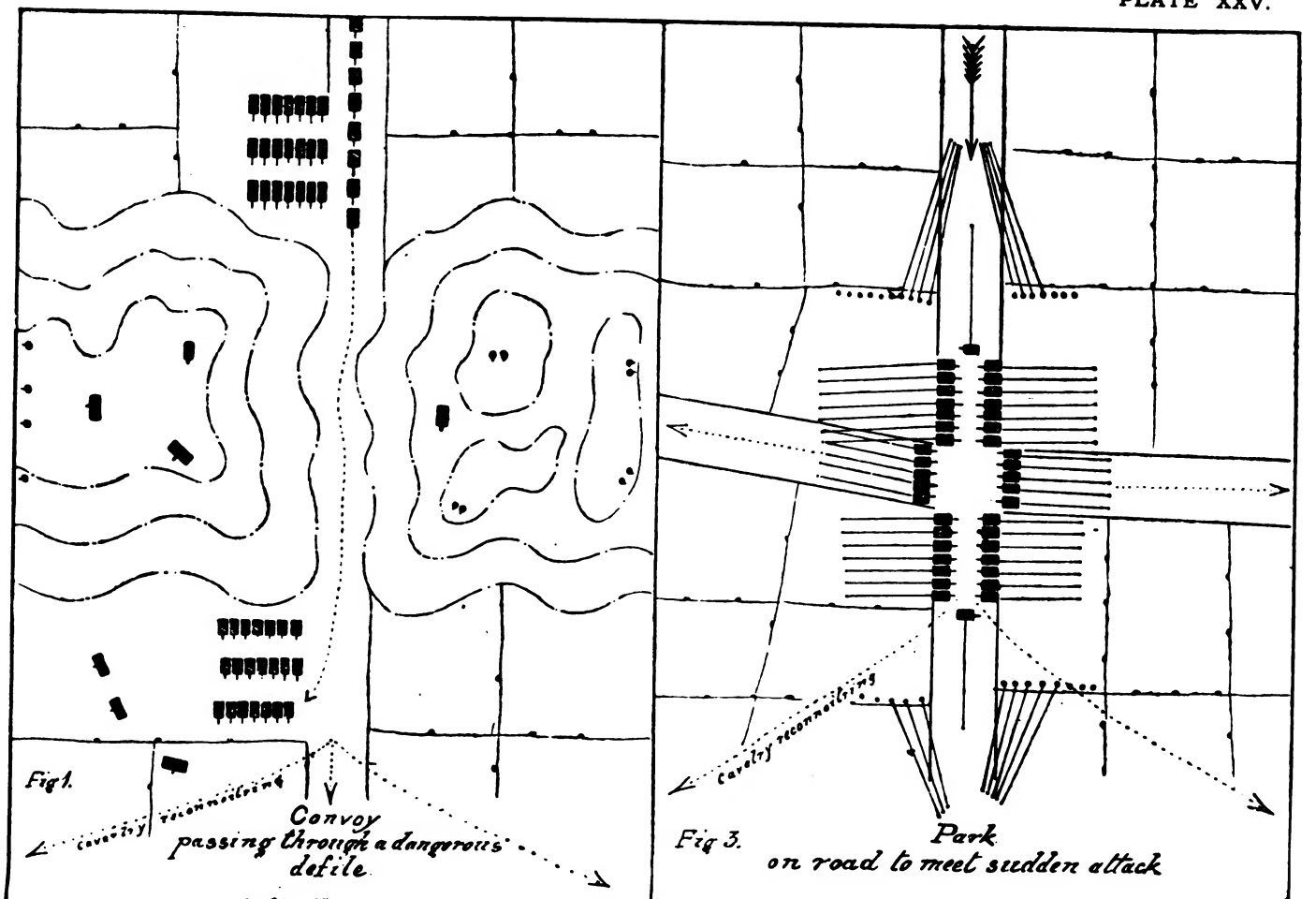


A VILLAGE.

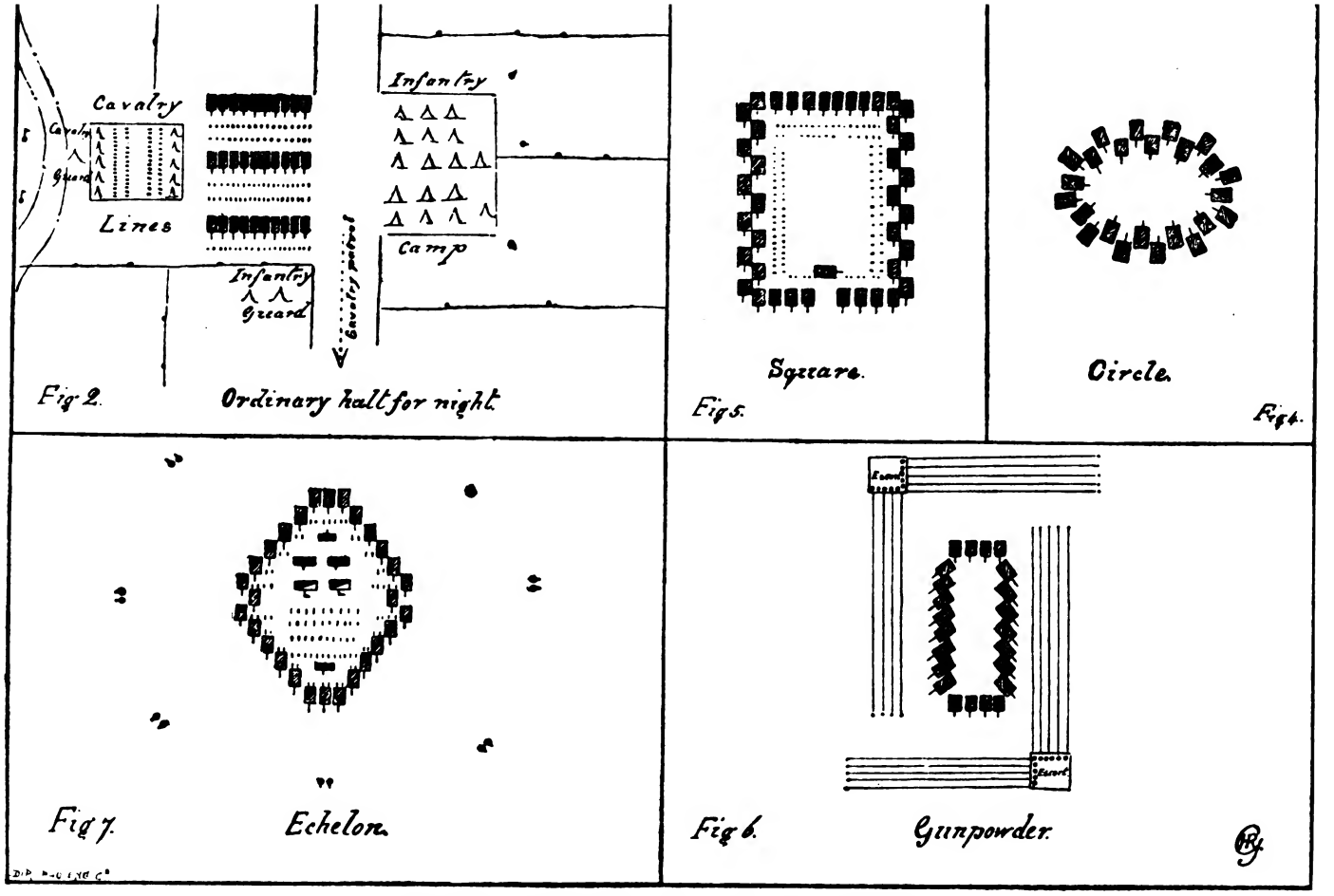
Digitized by Google

Digitized by Google

Digitized by Google



Digitized by Google



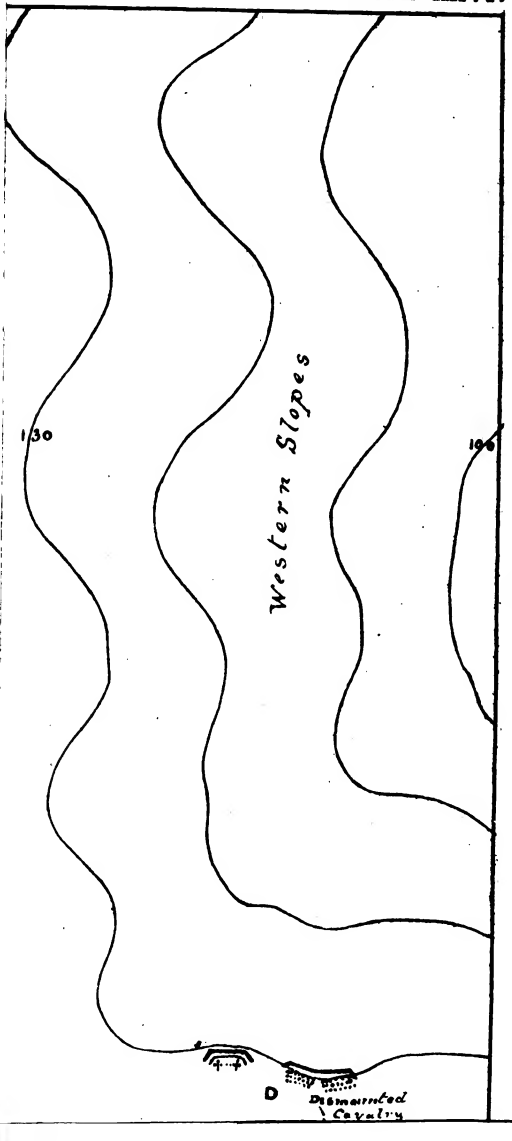
DIFFERENT METHODS OF PARKING CONVOYS.

Digitized by Google

Digitized by Google

MINATION, JUNE 1887.

PLATE XXVI.



POSITION SELECTED.

(See Map.)

MAIN FEATURES being:

(*a*) Defence in two lines and reserve.

(*b*) Strong occupation of, and forced deployment of enemy by artillery from, hill A.

(*c*) Support of hill A by entrenched battalion at B. A and B supported by infantry and artillery intrenchments at C C C.

(*d*) Refusal of right flank. Protection of that flank by

1st. Cavalry observation.

2nd. Artillery and dismounted cavalry, fire action at D, over western slopes.

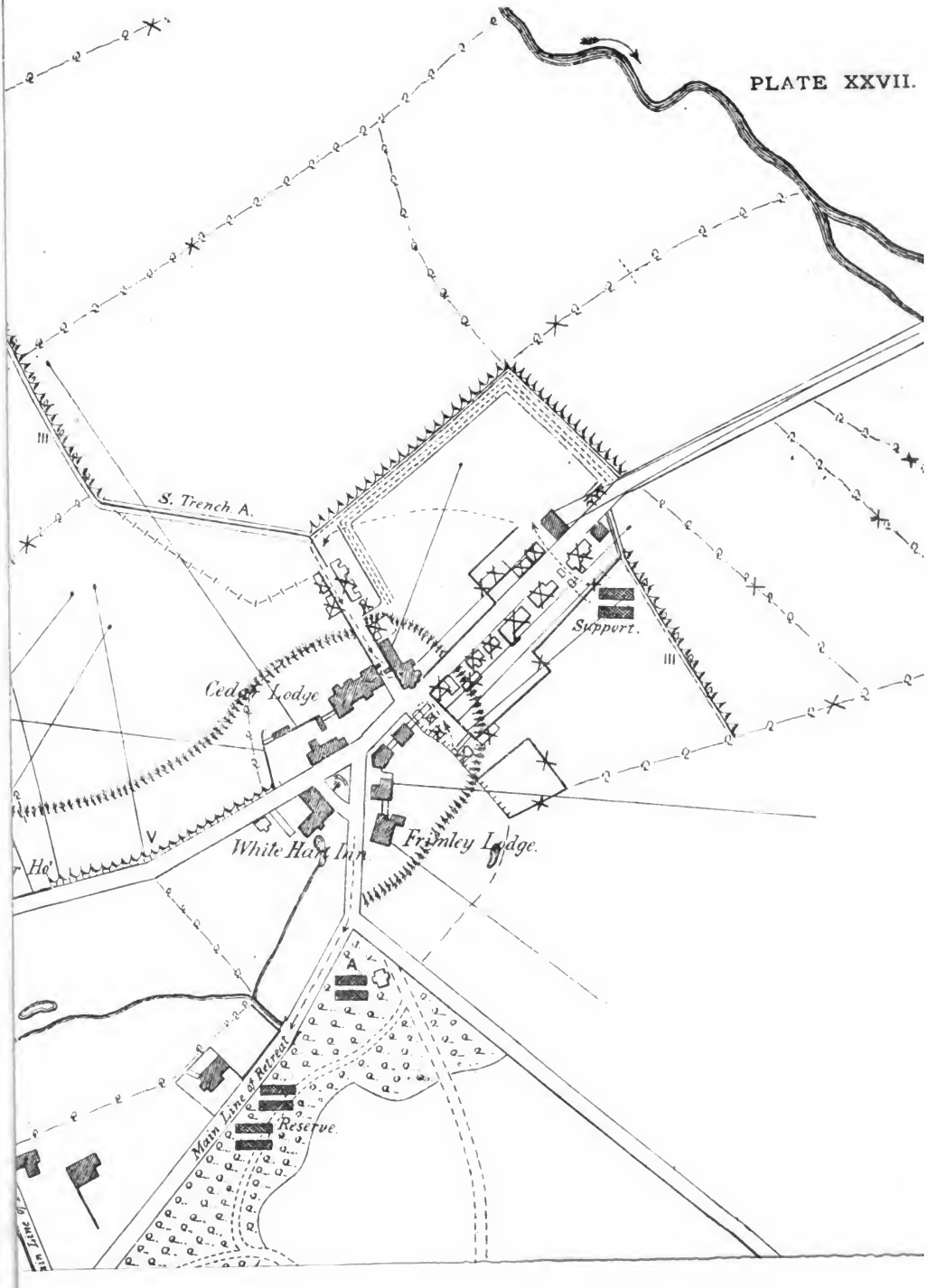
3rd. Epaulments, and shelter trenches at E E.

WORK.

Digitized by Google

Digitized by Google

PLATE XXVII.



UNIV. OF MICH.
Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google